

## iRefIndex\_Interactions\_by\_taxonomy\_beta8

NCBI taxonomy identifier	Scientific_name	Number_of_interactions
559292	<i>Saccharomyces cerevisiae</i> S288c	162083
9606	<i>Homo sapiens</i>	130732
4932	<i>Saccharomyces cerevisiae</i>	60164
7227	<i>Drosophila melanogaster</i>	46917
40674	<i>Mammalia</i>	36385
10090	<i>Mus musculus</i>	18085
83333	<i>Escherichia coli</i> K-12	17224
6239	<i>Caenorhabditis elegans</i>	13831
4896	<i>Schizosaccharomyces pombe</i>	13460
197	<i>Campylobacter jejuni</i>	12025
3702	<i>Arabidopsis thaliana</i>	7994
10116	<i>Rattus norvegicus</i>	6688
562	<i>Escherichia coli</i>	5294
632	<i>Yersinia pestis</i>	3818
160	<i>Treponema pallidum</i>	3647
1392	<i>Bacillus anthracis</i>	3086
1142	<i>Synechocystis</i>	3065
36329	<i>Plasmodium falciparum</i> 3D7	2836
83334	<i>Escherichia coli</i> O157:H7	2591
85962	<i>Helicobacter pylori</i> 26695	1601
210	<i>Helicobacter pylori</i>	1580
11676	<i>Human immunodeficiency virus 1</i>	1386
119856	<i>Francisella tularensis</i> subsp. <i>tularensis</i>	1379
9913	<i>Bos taurus</i>	1262
32630	<i>synthetic construct</i>	880
2104	<i>Mycoplasma pneumoniae</i>	818
0	NA	739
4530	<i>Oryza sativa</i>	542
1148	<i>Synechocystis</i> sp. PCC 6803	513
10376	<i>Human herpesvirus 4</i>	486
-2	NA	465
39947	<i>Oryza sativa Japonica Group</i>	460
8355	<i>Xenopus laevis</i>	447
9031	<i>Gallus gallus</i>	394
246197	<i>Myxococcus xanthus</i> DK 1622	381
10335	<i>Human herpesvirus 3</i>	343
341980	<i>Human herpesvirus 3 strain Oka vaccine</i>	332
217992	<i>Escherichia coli</i> O6	298
272951	<i>Rickettsia sibirica</i> 246	284
333284	<i>Hepatitis C virus (isolate Con1)</i>	282
211044	<i>Influenza A virus (A/Puerto Rico/8/1934(H1N1))</i>	281
7955	<i>Danio rerio</i>	272
1423	<i>Bacillus subtilis</i>	259
274	<i>Thermus thermophilus</i>	258
9986	<i>Oryctolagus cuniculus</i>	237
187410	<i>Yersinia pestis</i> KIM 10	230
9823	<i>Sus scrofa</i>	219
623	<i>Shigella flexneri</i>	202
511145	<i>Escherichia coli</i> str. K-12 substr. MG1655	191
37296	<i>Human herpesvirus 8</i>	190
18101	<i>Gerbera hybrid cultivar</i>	185

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170187 <i>Streptococcus pneumoniae</i> TIGR4	156
32644 <i>unidentified</i>	155
10377 <i>Human herpesvirus 4 (strain B95-8)</i>	153
2336 <i>Thermotoga maritima</i>	151
1773 <i>Mycobacterium tuberculosis</i>	150
11103 <i>Hepatitis C virus</i>	135
333760 <i>Human papillomavirus type 16</i>	133
53953 <i>Pyrococcus horikoshii</i>	133
284812 <i>Schizosaccharomyces pombe</i> 972h-	121
44689 <i>Dictyostelium discoideum</i>	114
287 <i>Pseudomonas aeruginosa</i>	114
602 NA	112
10299 <i>Herpes simplex virus (type 1 / strain 17)</i>	109
10254 <i>Vaccinia virus WR</i>	102
4102 <i>Petunia x hybrida</i>	94
85963 <i>Helicobacter pylori</i> J99	92
3888 <i>Pisum sativum</i>	91
10633 <i>Simian virus 40</i>	90
146786 <i>Thermosynechococcus elongatus</i>	90
10070 <i>Akodon aerosus</i>	89
5691 <i>Trypanosoma brucei</i>	87
9615 <i>Canis lupus familiaris</i>	87
1422 <i>Geobacillus stearothermophilus</i>	87
28285 <i>Human adenovirus 5</i>	86
1280 <i>Staphylococcus aureus</i>	86
381517 <i>Influenza A virus (A/Udm/307/1972(H3N2))</i>	82
1063 <i>Rhodobacter sphaeroides</i>	80
3562 <i>Spinacia oleracea</i>	77
90371 <i>Salmonella enterica subsp. enterica serovar Typhimuri</i>	76
243274 <i>Thermotoga maritima</i> MSB8	74
3055 <i>Chlamydomonas reinhardtii</i>	73
4565 <i>Triticum aestivum</i>	72
4577 <i>Zea mays</i>	68
10245 <i>Vaccinia virus</i>	67
2261 <i>Pyrococcus furiosus</i>	65
303 <i>Pseudomonas putida</i>	64
727 <i>Haemophilus influenzae</i>	64
2287 <i>Sulfolobus solfataricus</i>	61
300852 <i>Thermus thermophilus</i> HB8	60
11320 <i>Influenza A virus</i>	59
333761 <i>Human papillomavirus type 18</i>	55
4081 <i>Solanum lycopersicum</i>	53
190486 <i>Xanthomonas axonopodis pv. citri str. 306</i>	51
6421 <i>Hirudo medicinalis</i>	50
2190 <i>Methanocaldococcus jannaschii</i>	50
10298 <i>Human herpesvirus 1</i>	49
4113 <i>Solanum tuberosum</i>	49
271 <i>Thermus aquaticus</i>	48
266 <i>Paracoccus denitrificans</i>	48
2238 <i>Haloarcula marismortui</i>	47
358 <i>Agrobacterium tumefaciens</i>	46
32046 <i>Synechococcus elongatus</i>	46

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2234 <i>Archaeoglobus fulgidus</i>	45
4097 <i>Nicotiana tabacum</i>	43
11908 <i>Human T-lymphotropic virus 1</i>	43
10407 <i>Hepatitis B virus</i>	43
4513 <i>Hordeum vulgare</i>	42
1895 <i>Streptomyces avidinii</i>	41
63363 <i>Aquifex aeolicus</i>	41
5833 <i>Plasmodium falciparum</i>	40
10580 <i>Human papillomavirus type 11</i>	40
145262 <i>Methanothermobacter thermautotrophicus</i>	39
10760 <i>Enterobacteria phage T7</i>	39
10559 <i>Bovine papillomavirus type 1</i>	38
187420 <i>Methanothermobacter thermautotrophicus str. Delta H</i>	38
31647 <i>Hepatitis C virus subtype 1b</i>	38
208964 <i>Pseudomonas aeruginosa PAO1</i>	37
1390 <i>Bacillus amyloliquefaciens</i>	37
83332 <i>Mycobacterium tuberculosis H37Rv</i>	36
10249 <i>Vaccinia virus Copenhagen</i>	36
666 <i>Vibrio cholerae</i>	36
11309 <i>unidentified influenza virus</i>	35
155892 <i>Caulobacter vibrioides</i>	35
9103 <i>Meleagris gallopavo</i>	35
10665 <i>Enterobacteria phage T4</i>	35
-1 NA	33
10515 <i>Human adenovirus 2</i>	32
176299 <i>Agrobacterium tumefaciens str. C58</i>	31
1140 <i>Synechococcus elongatus PCC 7942</i>	31
10258 <i>Orf virus</i>	31
9796 <i>Equus caballus</i>	30
10029 <i>Cricetulus griseus</i>	29
70601 <i>Pyrococcus horikoshii OT3</i>	29
5476 <i>Candida albicans</i>	29
10117 <i>Rattus rattus</i>	29
573 <i>Klebsiella pneumoniae</i>	28
316407 <i>Escherichia coli str. K-12 substr. W3110</i>	28
1313 <i>Streptococcus pneumoniae</i>	28
1314 <i>Streptococcus pyogenes</i>	27
5116 <i>Cryphonectria parasitica</i>	27
354 <i>Azotobacter vinelandii</i>	27
197221 <i>Thermosynechococcus elongatus BP-1</i>	27
1911 <i>Streptomyces griseus</i>	27
28282 <i>Human adenovirus 12</i>	27
3847 <i>Glycine max</i>	27
574521 <i>Escherichia coli O127:H6 str. E2348/69</i>	26
1299 <i>Deinococcus radiodurans</i>	26
5141 <i>Neurospora crassa</i>	26
11886 <i>Rous sarcoma virus</i>	25
306 <i>Pseudomonas sp.</i>	25
520 <i>Bordetella pertussis</i>	25
9534 <i>Chlorocebus aethiops</i>	24
360111 <i>Campylobacter jejuni subsp. jejuni CF93-6</i>	24
83541 <i>Mastigocladus laminosus</i>	24

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8616 <i>Bungarus multicinctus</i>	23
354242 <i>Campylobacter jejuni</i> subsp. <i>jejuni</i> 81-176	23
227859 SARS coronavirus	23
243232 <i>Methanocaldococcus jannaschii</i> DSM 2661	22
9598 <i>Pan troglodytes</i>	22
615 <i>Serratia marcescens</i>	22
4922 <i>Pichia pastoris</i>	21
630 <i>Yersinia enterocolitica</i>	21
9838 <i>Camelus dromedarius</i>	21
224308 <i>Bacillus subtilis</i> subsp. <i>subtilis</i> str. 168	21
1061 <i>Rhodobacter capsulatus</i>	21
11060 Dengue virus 2	21
10710 <i>Enterobacteria phage lambda</i>	21
31199 <i>Argopecten irradians</i>	21
2303 <i>Thermoplasma acidophilum</i>	20
12110 Foot-and-mouth disease virus	20
1902 <i>Streptomyces coelicolor</i>	20
1351 <i>Enterococcus faecalis</i>	20
435896 NA	20
12721 Human immunodeficiency virus	20
1491 <i>Clostridium botulinum</i>	19
12133 NA	19
10036 <i>Mesocricetus auratus</i>	18
7787 <i>Torpedo californica</i>	18
99287 <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimuri</i>	18
262724 <i>Thermus thermophilus</i> HB27	18
5693 <i>Trypanosoma cruzi</i>	17
186497 <i>Pyrococcus furiosus</i> DSM 3638	17
56636 <i>Aeropyrum pernix</i>	17
11723 Simian immunodeficiency virus	17
12130 Human rhinovirus 2	17
9940 <i>Ovis aries</i>	17
273075 <i>Thermoplasma acidophilum</i> DSM 1728	16
10600 Human papillomavirus type 6b	16
3489 <i>Artocarpus heterophyllus</i>	16
11084 Tick-borne encephalitis virus	16
556 <i>Erwinia chrysanthemi</i>	16
6500 <i>Aplysia californica</i>	16
3858 <i>Lathyrus ochrus</i>	15
1393 <i>Brevibacillus brevis</i>	15
11679 Human immunodeficiency virus type 1 (CLONE 12)	15
1515 <i>Clostridium thermocellum</i>	15
4151 <i>Antirrhinum majus</i>	15
1916 <i>Streptomyces lividans</i>	15
1358 <i>Lactococcus lactis</i>	15
1079 <i>Blastochloris viridis</i>	15
28451 <i>Klebsiella aerogenes</i>	15
283166 <i>Bartonella henselae</i> str. <i>Houston-1</i>	14
1502 <i>Clostridium perfringens</i>	14
10585 Human papillomavirus type 31	14
10635 Mouse polyomavirus (strain 3)	14
360110 <i>Campylobacter jejuni</i> subsp. <i>jejuni</i> 84-25	14

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11709 <i>Human immunodeficiency virus 2</i>	14
3823 <i>Canavalia ensiformis</i>	14
13773 <i>Pyrobaculum aerophilum</i>	14
11276 <i>Vesicular stomatitis virus</i>	14
39946 <i>Oryza sativa Indica Group</i>	14
139 <i>Borrelia burgdorferi</i>	14
11234 <i>Measles virus</i>	14
294 <i>Pseudomonas fluorescens</i>	13
5811 <i>Toxoplasma gondii</i>	13
1085 <i>Rhodospirillum rubrum</i>	13
10678 <i>Enterobacteria phage P1</i>	13
31531 <i>Vaccinia virus L-IPV</i>	13
12075 <i>Swine vesicular disease virus</i>	13
1639 <i>Listeria monocytogenes</i>	13
273057 <i>Sulfolobus solfataricus P2</i>	13
633 <i>Yersinia pseudotuberculosis</i>	13
10754 <i>Enterobacteria phage P22</i>	13
511 <i>Alcaligenes faecalis</i>	13
1396 <i>Bacillus cereus</i>	13
69 <i>Lysobacter enzymogenes</i>	13
224325 <i>Archaeoglobus fulgidus DSM 4304</i>	13
8364 <i>Xenopus (Silurana) tropicalis</i>	13
12215 <i>Potato virus A</i>	13
32053 <i>Thermosynechococcus vulcanus</i>	13
8618 <i>Dendroaspis angusticeps</i>	12
2209 <i>Methanosarcina mazei</i>	12
1901 <i>Streptomyces clavuligerus</i>	12
414 <i>Methylococcus capsulatus</i>	12
487 <i>Neisseria meningitidis</i>	12
11105 <i>Hepatitis C virus (isolate BK)</i>	12
12081 <i>Human poliovirus 1 Mahoney</i>	12
11623 <i>Lymphocytic choriomeningitis virus</i>	12
5911 <i>Tetrahymena thermophila</i>	12
10141 <i>Cavia porcellus</i>	11
7757 <i>Petromyzon marinus</i>	11
314292 <i>Photobacterium angustum S14</i>	11
5702 <i>Trypanosoma brucei brucei</i>	11
6183 <i>Schistosoma mansoni</i>	11
10359 <i>Human herpesvirus 5</i>	11
7091 <i>Bombyx mori</i>	11
10360 <i>Human herpesvirus 5 strain AD169</i>	11
1260 <i>Fingoldia magna</i>	11
3649 <i>Carica papaya</i>	11
11696 <i>HIV-1 M:B_MN</i>	11
323 <i>Pseudomonas syringae pv. tomato</i>	11
1427 <i>Bacillus thermoproteolyticus</i>	11
10581 NA	10
2320 <i>Methanopyrus kandleri</i>	10
243233 <i>Methylococcus capsulatus str. Bath</i>	10
226900 <i>Bacillus cereus ATCC 14579</i>	10
97228 <i>Daboia russellii pulchella</i>	10
103690 <i>Nostoc sp. PCC 7120</i>	10

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6621 <i>Loligo pealei</i>	10
1168 <i>Nostoc</i> sp. PCC 7119	10
1833 <i>Rhodococcus erythropolis</i>	10
11678 Human immunodeficiency virus type 1 BH10	10
3457 <i>Dioscoreophyllum cumminsii</i>	10
11475 NA	10
11191 Sendai virus	10
11108 Hepatitis C virus (isolate H)	10
272630 <i>Methylobacterium extorquens</i> AM1	10
307796 <i>Saccharomyces cerevisiae</i> YJM789	10
601 NA	10
132504 Influenza A virus (A/X-31(H3N2))	10
12088 Poliovirus type 3 (strains P3/LEON/37 AND P3/LEON :	10
879 <i>Desulfovibrio gigas</i>	9
29292 <i>Pyrococcus abyssi</i>	9
2208 <i>Methanosarcina barkeri</i>	9
73239 <i>Plasmodium yoelii yoelii</i>	9
112509 <i>Hordeum vulgare</i> subsp. vulgare	9
10583 Human papillomavirus type 1a	9
10891 Reovirus sp.	9
1409 <i>Bacillus</i> sp.	9
10847 Enterobacteria phage phiX174	9
88087 <i>Trimeresurus flavoviridis</i>	9
1131 <i>Synechococcus</i> sp.	9
10684 <i>Bacillus</i> phage PBS2	9
148305 <i>Magnaporthe grisea</i>	9
694009 Severe acute respiratory syndrome-related coronavirus	9
5855 <i>Plasmodium vivax</i>	9
844 <i>Wolinella succinogenes</i>	9
11685 HIV-1 M:B_ARV2/SF2	9
12637 Dengue virus	9
7224 <i>Drosophila hydei</i>	9
33708 Murid herpesvirus 4	9
5664 <i>Leishmania major</i>	9
3490 <i>Artocarpus integer</i>	9
190386 <i>Agrobacterium tumefaciens</i> (strain 15955)	9
4084 <i>Solanum pimpinellifolium</i>	9
12069 Human coxsackievirus A21	8
381666 <i>Ralstonia eutropha</i> H16	8
1402 <i>Bacillus licheniformis</i>	8
881 <i>Desulfovibrio vulgaris</i>	8
36409 Rinderpest virus (strain RBOK)	8
408 <i>Methylobacterium extorquens</i>	8
79730 <i>Ascidia sydneiensis samea</i>	8
1167 <i>Anabaena</i> sp.	8
11706 HIV-1 M:B_HXB2R	8
11801 Moloney murine leukemia virus	8
10243 Cowpox virus	8
227321 <i>Aspergillus nidulans</i> FGSC A4	8
7067 <i>Tenebrio molitor</i>	8
162425 <i>Emericella nidulans</i>	8
4100 <i>Nicotiana benthamiana</i>	8

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45659 <i>Human adenovirus 3</i>	8
203119 <i>Clostridium thermocellum</i> ATCC 27405	8
3885 <i>Phaseolus vulgaris</i>	8
4558 <i>Sorghum bicolor</i>	8
34 <i>Myxococcus xanthus</i>	8
435895 <i>Human herpesvirus 8 type M</i>	8
510 NA	8
8656 <i>Naja atra</i>	8
5558 NA	8
10756 <i>Bacillus phage phi29</i>	8
1352 <i>Enterococcus faecium</i>	8
317 <i>Pseudomonas syringae</i>	8
6398 <i>Lumbricus terrestris</i>	8
6973 <i>Blattella germanica</i>	8
1143 <i>Synechocystis</i> sp.	8
10579 <i>Human papillomavirus type 8</i>	8
195058 <i>Naja sagittifera</i>	8
238 <i>Elizabethkingia meningoseptica</i>	8
622 <i>Shigella dysenteriae</i>	8
878 <i>Desulfovibrio fructosovorans</i>	8
6253 <i>Ascaris suum</i>	8
82830 <i>Epstein-barr virus strain ag876</i>	8
226185 <i>Enterococcus faecalis</i> V583	8
47421 <i>Hydrogenophaga pseudoflava</i>	7
10527 <i>Human adenovirus 9</i>	7
571 <i>Klebsiella oxytoca</i>	7
10804 <i>Adeno-associated virus - 2</i>	7
296 <i>Pseudomonas fragi</i>	7
111955 <i>Sulfolobus tokodaii</i>	7
1404 <i>Bacillus megaterium</i>	7
3972 <i>Viscum album</i>	7
1320 <i>Streptococcus</i> sp. 'group G'	7
485 <i>Neisseria gonorrhoeae</i>	7
9825 <i>Sus scrofa domesticus</i>	7
1831 <i>Rhodococcus</i> sp.	7
3544 <i>Mesembryanthemum crystallinum</i>	7
8724 <i>Bothrops jararaca</i>	7
11673 <i>Feline immunodeficiency virus</i>	7
211586 <i>Shewanella oneidensis</i> MR-1	7
7153 <i>Chironomus tentans</i>	7
11599 <i>Hantaan virus</i>	7
11901 <i>Bovine leukemia virus</i>	7
585 <i>Proteus vulgaris</i>	7
7788 <i>Torpedo marmorata</i>	7
86665 <i>Bacillus halodurans</i>	7
1050 <i>Thermochromatium tepidum</i>	7
10636 <i>Murine polyomavirus strain A2</i>	7
44130 <i>Human rhinovirus 3</i>	7
384509 <i>Influenza A virus (A/tern/Australia/G70C/1975(H11N9))</i>	7
31646 <i>Hepatitis C virus subtype 1a</i>	7
5207 <i>Filobasidiella neoformans</i>	7
246196 <i>Mycobacterium smegmatis</i> str. MC2 155	7

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103944 <i>Protobothrops mucrosquamatus</i>	7
285 <i>Comamonas testosteroni</i>	7
12208 <i>Pea seed-borne mosaic virus</i>	7
12084 <i>Poliovirus type 2 strain Lansing</i>	7
46633 <i>Human echovirus 1</i>	7
31159 <i>Daboia russellii russellii</i>	7
2026 <i>Thermoactinomyces vulgaris</i>	7
730 <i>Haemophilus ducreyi</i>	7
293 <i>Brevundimonas diminuta</i>	7
6523 <i>Lymnaea stagnalis</i>	7
12067 <i>Human coxsackievirus A9</i>	7
158 <i>Treponema denticola</i>	7
669 <i>Vibrio harveyi</i>	7
5507 <i>Fusarium oxysporum</i>	6
1717 <i>Corynebacterium diphtheriae</i>	6
12134 <i>Human rhinovirus 1A</i>	6
421877 <i>Hepatitis C virus isolate HC-J1</i>	6
59405 <i>Thauera aromatica</i>	6
3708 <i>Brassica napus</i>	6
8846 <i>Anser indicus</i>	6
41529 <i>Salmonella enterica subsp. enterica serovar Typhisuis</i>	6
1282 <i>Staphylococcus epidermidis</i>	6
6426 <i>Riftia pachyptila</i>	6
226186 <i>Bacteroides thetaiotaomicron VPI-5482</i>	6
3661 <i>Cucurbita maxima</i>	6
374840 <i>Enterobacteria phage phiX174 sensu lato</i>	6
10884 <i>Mammalian orthoreovirus 1 Lang</i>	6
10030 <i>Cricetulus longicaudatus</i>	6
1501 <i>Clostridium pasteurianum</i>	6
1720 <i>Corynebacterium sp.</i>	6
3712 <i>Brassica oleracea</i>	6
42897 <i>Shigella flexneri 2a</i>	6
12078 <i>Human echovirus 11</i>	6
11033 <i>Semliki forest virus</i>	6
1049 <i>Allochromatium vinosum</i>	6
9541 <i>Macaca fascicularis</i>	6
119602 <i>Streptococcus dysgalactiae subsp. equisimilis</i>	6
17 <i>Methylophilus methylotrophus</i>	6
1752 <i>Propionibacterium freudenreichii subsp. shermanii</i>	6
9844 <i>Lama glama</i>	6
546 <i>Citrobacter freundii</i>	6
9544 <i>Macaca mulatta</i>	6
3988 <i>Ricinus communis</i>	6
1306 <i>Streptococcus sp.</i>	6
2166 NA	6
550 <i>Enterobacter cloacae</i>	6
83374 <i>Galdieria partita</i>	6
12126 <i>Theiler's encephalomyelitis virus (STRAIN DA)</i>	6
847 <i>Oxalobacter formigenes</i>	6
5656 <i>Crithidia fasciculata</i>	6
1765 <i>Mycobacterium bovis</i>	6
28985 <i>Kluyveromyces lactis</i>	6



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8692 <i>Bitis arietans</i>	6
5482 <i>Candida tropicalis</i>	6
10658 <i>Enterobacteria phage PRD1</i>	6
7111 <i>Trichoplusia ni</i>	6
8839 <i>Anas platyrhynchos</i>	6
12064 <i>Bovine enterovirus</i>	6
12643 <i>Ectromelia virus</i>	6
2285 <i>Sulfolobus acidocaldarius</i>	6
1076 <i>Rhodopseudomonas palustris</i>	6
1311 <i>Streptococcus agalactiae</i>	6
12131 <i>Human rhinovirus 14</i>	6
79257 <i>Rhodomonas sp. CS24</i>	6
876 <i>Desulfovibrio desulfuricans</i>	6
2286 <i>Sulfolobus shibatae</i>	6
387139 <i>Influenza A virus (A/Aichi/2/1968(H3N2))</i>	6
5791 <i>Physarum polycephalum</i>	6
1525 <i>Moorella thermoacetica</i>	6
243230 <i>Deinococcus radiodurans R1</i>	6
272557 <i>Aeropyrum pernix K1</i>	6
118562 <i>Arthrospira platensis</i>	6
1894 <i>Streptomyces aureofaciens</i>	6
382 <i>Sinorhizobium melliloti</i>	6
10626 <i>Hamster polyomavirus</i>	6
10879 <i>Pseudomonas phage phi6</i>	5
8030 <i>Salmo salar</i>	5
11698 <i>Human immunodeficiency virus type 1 (NEW YORK-5)</i>	5
12227 <i>Tobacco etch virus</i>	5
1718 <i>Corynebacterium glutamicum</i>	5
6108 <i>Anemonia sulcata</i>	5
1156 NA	5
12072 <i>Human coxsackievirus B3</i>	5
10381 <i>Saimiriine herpesvirus 2</i>	5
1097 <i>Chlorobaculum tepidum</i>	5
47881 <i>Pseudomonas pavonaceae</i>	5
883 <i>Desulfovibrio vulgaris str. 'Miyazaki F'</i>	5
382848 <i>Influenza A virus (A/swine/Hong Kong/126/1982(H3N2))</i>	5
3673 <i>Momordica charantia</i>	5
1098 <i>Prosthecochloris vibrioformis</i>	5
129875 <i>Human adenovirus A</i>	5
65404 <i>Polysiphonia urceolata</i>	5
73841 <i>Vipera ammodytes meridionalis</i>	5
11855 <i>Mason-Pfizer monkey virus</i>	5
360108 <i>Campylobacter jejuni subsp. jejuni 260.94</i>	5
10384 <i>Herpesvirus saimiri (strain 488)</i>	5
55676 <i>Oligobranchia mashikoi</i>	5
538120 <i>Mammalian orthoreovirus 1</i>	5
2214 <i>Methanosarcina acetivorans</i>	5
3677 <i>Trichosanthes kirilowii</i>	5
2265 <i>Thermococcus litoralis</i>	5
644 <i>Aeromonas hydrophila</i>	5
5722 <i>Trichomonas vaginalis</i>	5
8730 <i>Crotalus atrox</i>	5

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70863 <i>Shewanella oneidensis</i>	5
905 <i>Acidaminococcus fermentans</i>	5
6938 <i>Ornithodoros moubata</i>	5
11610 <i>Seoul virus SR11</i>	5
316 <i>Pseudomonas stutzeri</i>	5
28901 <i>Salmonella enterica</i>	5
1866 <i>Actinoplanes missouriensis</i>	5
46015 <i>Autographa californica nucleopolyhedrovirus</i>	5
2242 <i>Halobacterium salinarum</i>	5
11082 <i>West Nile virus</i>	5
8766 NA	5
5061 <i>Aspergillus niger</i>	5
11113 <i>Hepatitis C virus isolate HC-J6</i>	5
115711 <i>Chlamydomonas reinhardtii</i>	5
554 <i>Pectobacterium carotovorum</i>	5
352472 <i>Dictyostelium discoideum AX4</i>	5
362651 <i>Human immunodeficiency virus type 1 (isolate YU2)</i>	5
10506 <i>Paramecium bursaria Chlorella virus 1</i>	5
190110 <i>Parabuthus schlechteri</i>	5
36307 <i>Deinagkistrodon acutus</i>	5
5062 <i>Aspergillus oryzae</i>	5
6707 <i>Homarus gammarus</i>	5
11489 NA	5
235 <i>Brucella abortus</i>	5
3906 <i>Vicia faba</i>	5
90370 <i>Salmonella enterica subsp. enterica serovar Typhi</i>	5
5665 <i>Leishmania mexicana</i>	5
1772 <i>Mycobacterium smegmatis</i>	5
216593 <i>Escherichia coli E2348/69</i>	5
10624 <i>Polyomavirus</i>	5
1494 <i>Clostridium cochlearium</i>	5
69488 <i>Penicillium simplicissimum</i>	5
10872 <i>Pseudomonas phage Pf3</i>	5
8022 <i>Oncorhynchus mykiss</i>	5
10118 <i>Rattus sp.</i>	5
1590 <i>Lactobacillus plantarum</i>	5
272943 <i>Rhodobacter sphaeroides 2.4.1</i>	5
2257 <i>Natronomonas pharaonis</i>	4
169963 <i>Listeria monocytogenes EGD-e</i>	4
10991 <i>Rice dwarf virus</i>	4
3505 <i>Betula pendula</i>	4
272558 <i>Bacillus halodurans C-125</i>	4
1591 <i>Lactobacillus sp.</i>	4
3916 <i>Vigna radiata var. radiata</i>	4
7130 <i>Manduca sexta</i>	4
3711 <i>Brassica rapa</i>	4
3864 <i>Lens culinaris</i>	4
144556 NA	4
10144 <i>Cavia cutleri</i>	4
1593 <i>Lactobacillus sp. 30A</i>	4
257313 <i>Bordetella pertussis Tohama I</i>	4
3329 <i>Picea abies</i>	4

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8090	<i>Oryzias latipes</i>	4
455064	<i>Thermosynechococcus vulcanus</i> str. Copeland	4
13037	<i>Danaus plexippus</i>	4
542	<i>Zymomonas mobilis</i>	4
6848	<i>Carcinoscorpius rotundicauda</i>	4
272562	<i>Clostridium acetobutylicum</i> ATCC 824	4
301447	<i>Streptococcus pyogenes</i> serotype M1	4
200597	<i>Sterkiella nova</i>	4
67831	<i>Rhipicephalus bursa</i>	4
40137	<i>Oligotropha carboxidovorans</i>	4
2262	<i>Pyrococcus woesei</i>	4
12243	Tobacco mosaic virus (vulgare)	4
2334	<i>Bacillus</i> sp. PS3	4
3879	<i>Medicago sativa</i>	4
426	<i>Methylosinus trichosporium</i>	4
818	<i>Bacteroides thetaiotaomicron</i>	4
11250	Human respiratory syncytial virus	4
1505	<i>Clostridium sordellii</i>	4
12022	<i>Enterobacterio phage MS2</i>	4
7159	<i>Aedes aegypti</i>	4
9091	<i>Coturnix coturnix</i>	4
36773	<i>Burkholderia</i> sp.	4
1582	<i>Lactobacillus casei</i>	4
1836	<i>Saccharopolyspora erythraea</i>	4
504832	<i>Oligotropha carboxidovorans OM5</i>	4
2111	<i>Mycoplasma arthritidis</i>	4
1665	<i>Arthrobacter globiformis</i>	4
275	<i>Thermus</i> sp.	4
1905	<i>Streptomyces exfoliatus</i>	4
2787	<i>Porphyra purpurea</i>	4
33067	<i>Pseudomonas</i> sp. 101	4
12591	NA	4
1188	<i>Tolypothrix</i> sp. PCC 7601	4
1394	<i>Bacillus caldolyticus</i>	4
1474	<i>Sporosarcina pasteurii</i>	4
158786	<i>Lyngbya majuscula</i>	4
1667	<i>Arthrobacter</i> sp.	4
10849	<i>Enterobacteria phage alpha3</i>	4
7102	<i>Heliothis virescens</i>	4
9685	<i>Felis catus</i>	4
4843	<i>Rhizopus microsporus</i> var. chinensis	4
290579	HIV-1 M:B Lai	4
11720	Human immunodeficiency virus type 2 (ISOLATE ROD)	4
176674	Influenza A virus (A/Duck/Hong Kong/2986.1/2000(H5)	4
224324	<i>Aquifex aeolicus</i> VF5	4
6945	<i>Ixodes scapularis</i>	4
7108	<i>Spodoptera frugiperda</i>	4
30591	<i>Aotus azarai</i>	4
273121	<i>Wolinella succinogenes</i> DSM 1740	4
12161	Beet yellows virus	4
10566	Human papillomavirus	4
915	<i>Nitrosomonas europaea</i>	4

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337042 <i>Human papillomavirus 18</i>	4
9925 <i>Capra hircus</i>	4
10757 <i>Bacillus phage PZA</i>	4
11053 <i>Dengue virus 1</i>	4
1074 <i>Rhodoblastus acidophilus</i>	4
1309 <i>Streptococcus mutans</i>	4
4905 <i>Pichia angusta</i>	4
1769 <i>Mycobacterium leprae</i>	4
100226 <i>Streptomyces coelicolor A3(2)</i>	4
416870 <i>Lactococcus lactis subsp. cremoris MG1363</i>	4
40690 <i>Trematomus bernacchii</i>	4
82367 <i>Paracoccus pantotrophus</i>	4
6419 <i>Hirudinaria manillensis</i>	4
15957 <i>Phleum pratense</i>	4
1312 NA	4
9601 <i>Pongo abelii</i>	4
10794 <i>Minute virus of mice</i>	4
11665 <i>Equine infectious anemia virus</i>	4
6100 <i>Aequorea victoria</i>	3
6526 <i>Biomphalaria glabrata</i>	3
28502 <i>Amaranthus hypochondriacus</i>	3
79676 <i>Pseudomonas sp. CF600</i>	3
4087 <i>Nicotiana glauca</i>	3
6279 <i>Brugia malayi</i>	3
10712 <i>Phage 434</i>	3
670 <i>Vibrio parahaemolyticus</i>	3
31767 <i>Hepatitis E virus (strain Burma)</i>	3
4511 <i>Eleusine coracana</i>	3
10632 <i>JC polyomavirus</i>	3
4682 <i>Allium sativum</i>	3
12136 <i>Cricket paralysis virus</i>	3
1931 <i>Streptomyces sp.</i>	3
12475 <i>Hepatitis delta virus</i>	3
8053 <i>Gadus callarias</i>	3
4092 <i>Nicotiana plumbaginifolia</i>	3
133899 NA	3
5085 <i>Aspergillus fumigatus</i>	3
42003 <i>Griffithsia monilis</i>	3
173 <i>Leptospira interrogans</i>	3
10333 <i>Equine herpesvirus type 4 (strain 1942)</i>	3
337 <i>Burkholderia glumae</i>	3
10582 NA	3
5821 <i>Plasmodium berghei</i>	3
199310 <i>Escherichia coli CFT073</i>	3
11241 <i>Rinderpest virus</i>	3
102746 <i>Hieracium piloselloides</i>	3
35730 <i>Trematomus newnesi</i>	3
10530 <i>Murine adenovirus 1</i>	3
1932 <i>Streptomyces tendae</i>	3
36436 <i>Simian rotavirus A/SA11-4F</i>	3
340 <i>Xanthomonas campestris pv. campestris</i>	3
196620 <i>Staphylococcus aureus subsp. aureus MW2</i>	3

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73475 <i>Chicken anemia virus Cuxhaven-1/Germany</i>	3
2327 <i>Methylophilus methylotrophus W3A1</i>	3
31902 <i>Dasyatis akajei</i>	3
119072 <i>Caldanaerobacter subterraneus subsp. tengcongensis</i>	3
37554 <i>Enterobacteria phage HK97</i>	3
1406 <i>Paenibacillus polymyxa</i>	3
345076 <i>Vibrio cholerae V52</i>	3
525146 <i>Desulfovibrio desulfuricans subsp. desulfuricans str. A</i>	3
10634 <i>Murine polyomavirus</i>	3
2210 <i>Methanosarcina thermophila</i>	3
913028 <i>Yersinia enterocolitica W22703</i>	3
817 <i>Bacteroides fragilis</i>	3
11246 <i>Bovine respiratory syncytial virus</i>	3
3981 <i>Hevea brasiliensis</i>	3
1324 <i>Streptococcus sp. G148</i>	3
12145 <i>Tomato bushy stunt virus</i>	3
8167 <i>Perca flavescens</i>	3
382853 <i>Influenza A virus (A/swine/St-Hyacinthe/148/1990(H1N1))</i>	3
171624 <i>Nephila antipodiana</i>	3
10724 <i>Bacillus phage SPP1</i>	3
11149 <i>Transmissible gastroenteritis virus</i>	3
1301 <i>Streptococcus</i>	3
1408 <i>Bacillus pumilus</i>	3
347515 <i>Leishmania major strain Friedlin</i>	3
10843 <i>Enterobacteria phage G4</i>	3
2775 <i>Gracilaria chilensis</i>	3
1108 <i>Chloroflexus aurantiacus</i>	3
103782 <i>Pariacato virus</i>	3
35816 <i>Pelobacter acidigallici</i>	3
237561 <i>Candida albicans SC5314</i>	3
31553 <i>Papillomavirus sylvilagi (STRAIN KANSAS)</i>	3
92520 NA	3
51453 <i>Hypocrea jecorina</i>	3
12253 <i>Tomato mosaic virus</i>	3
11034 <i>Sindbis virus</i>	3
8649 <i>Naja kaouthia</i>	3
227984 <i>SARS coronavirus Tor2</i>	3
30077 <i>Triatoma pallidipennis</i>	3
11259 <i>Human respiratory syncytial virus A2</i>	3
35889 <i>Nicotiana glutinosa</i>	3
3818 <i>Arachis hypogaea</i>	3
9874 <i>Odocoileus virginianus</i>	3
5724 <i>Tritrichomonas foetus</i>	3
1848 <i>Pseudonocardia thermophila</i>	3
12258 <i>Comovirus</i>	3
121791 <i>Nipah virus</i>	3
68728 <i>Chrysocyon brachyurus</i>	3
8732 <i>Crotalus durissus terrificus</i>	3
4043 <i>Petroselinum crispum</i>	3
322710 <i>Azotobacter vinelandii DJ</i>	3
380342 <i>Influenza A virus (A/swine/Iowa/15/1930(H1N1))</i>	3
6192 <i>Fasciola hepatica</i>	3

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62977 <i>Acinetobacter</i> sp. ADP1	3
10685 <i>Bacillus</i> phage SPO1	3
8237 <i>Thunnus thynnus</i>	3
92694 <i>Rhodococcus</i> sp. NCIMB12038	3
1197 <i>Fremyella diplosiphon</i>	3
10366 <i>Murid herpesvirus 1</i>	3
13689 <i>Sphingomonas paucimobilis</i>	3
1307 <i>Streptococcus suis</i>	3
1421 <i>Lysinibacillus sphaericus</i>	3
5861 <i>Plasmodium yoelii</i>	3
12353 <i>Enterobacteria phage RB69</i>	3
205488 <i>Ebola virus</i> sp.	3
89020 <i>Mustelus griseus</i>	3
11268 NA	3
40410 <i>Cryptococcus neoformans</i> var. <i>neoformans</i>	3
10315 <i>Human herpesvirus 2</i> strain HG52	3
71421 <i>Haemophilus influenzae</i> Rd KW20	3
10923 <i>Simian rotavirus A/SA11</i>	3
11484 <i>Influenza A virus (A/whale/Maine/1/84(H13N9))</i>	3
5270 <i>Ustilago maydis</i>	3
2180 <i>Methanothermus fervidus</i>	3
11207 <i>Parainfluenza virus 5</i>	3
9597 <i>Pan paniscus</i>	3
11876 <i>Avian sarcoma virus</i>	3
1488 <i>Clostridium acetobutylicum</i>	3
158879 <i>Staphylococcus aureus</i> subsp. <i>aureus</i> N315	3
446 <i>Legionella pneumophila</i>	3
10864 <i>Enterobacteria phage fd</i>	3
228407 <i>SARS coronavirus BJ01</i>	3
873 <i>Desulfovibrio africanus</i>	3
263374 <i>Bordetella phage BMP-1</i>	3
4076 <i>Datura stramonium</i>	3
1354 <i>Enterococcus hirae</i>	3
11686 <i>Human immunodeficiency virus type 1 (BRU ISOLATE)</i>	3
48465 <i>Prostheco bacter dejongeii</i>	3
443255 <i>Streptomyces clavuligerus</i> ATCC 27064	3
11116 <i>Hepatitis C virus (isolate Japanese)</i>	3
93050 <i>Echis multisquamatus</i>	3
37137 <i>Simian rotavirus A/SA11-both</i>	3
1587 <i>Lactobacillus helveticus</i>	3
1887 <i>Streptomyces albogriseolus</i>	3
12285 <i>Black beetle virus</i>	3
375 <i>Bradyrhizobium japonicum</i>	3
10623 <i>Cottontail rabbit papillomavirus</i>	3
198215 <i>Shigella flexneri 2a</i> str. 2457T	3
11208 <i>Simian virus 5 (strain W3)</i>	3
8705 <i>Vipera ammodytes ammodytes</i>	3
37998 <i>Engyodontium album</i>	3
10279 <i>Molluscum contagiosum virus</i>	3
5945 NA	3
8843 <i>Anser anser</i>	3
106590 <i>Cupriavidus necator</i>	3

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11689	<i>Human immunodeficiency virus type 1 (ELI ISOLATE)</i>	3
9793	<i>Equus asinus</i>	3
10326	<i>Equid herpesvirus 1</i>	3
12657	<i>Equid herpesvirus 2</i>	3
518	<i>Bordetella bronchiseptica</i>	3
72579	<i>Bacillus sp. YM-1</i>	3
12086	<i>Human poliovirus 3</i>	3
7004	<i>Locusta migratoria</i>	3
253435	<i>SARS coronavirus PUMC03</i>	3
11216	<i>Human parainfluenza virus 3</i>	3
100673	<i>Influenza C virus (C/Johannesburg/1/66)</i>	3
10280	<i>Molluscum contagiosum virus subtype 1</i>	3
59201	<i>Salmonella enterica subsp. enterica</i>	3
5076	<i>Penicillium chrysogenum</i>	3
216597	<i>Salmonella enterica subsp. enterica serovar Typhimuri</i>	3
11520	<i>Influenza B virus</i>	3
4498	<i>Avena sativa</i>	3
12288	<i>Nodamura virus</i>	3
7010	<i>Schistocerca gregaria</i>	3
2502	<i>Plasmid RK2</i>	3
1083	<i>Phaeosporidium molischianum</i>	3
353152	<i>Cryptosporidium parvum Iowa II</i>	3
373036	<i>Griffithsia sp. Q66D336</i>	2
1929	<i>Streptomyces rubiginosus</i>	2
265874	<i>Ectromelia virus Moscow</i>	2
11285	<i>Vesicular stomatitis Indiana virus strain San Juan</i>	2
109171	<i>Pachyrhizus erosus</i>	2
1360	<i>Lactococcus lactis subsp. lactis</i>	2
132961	<i>Bungarus caeruleus</i>	2
64574	<i>Radiomyces spectabilis</i>	2
529	<i>Ochrobactrum anthropi</i>	2
7242	<i>Drosophila sp.</i>	2
9521	<i>Saimiri sciureus</i>	2
344021	<i>Enterobacteria phage K1F</i>	2
155077	<i>Cellvibrio japonicus</i>	2
5319	<i>Irpex lacteus</i>	2
12302	<i>Brome mosaic virus</i>	2
394	<i>Rhizobium sp. NGR234</i>	2
7038	<i>Bemisia tabaci</i>	2
11066	<i>Dengue virus 2 Puerto Rico/PR159-S1/1969</i>	2
8717	<i>Calloselasma rhodostoma</i>	2
312017	<i>Tetrahymena thermophila SB210</i>	2
1428	<i>Bacillus thuringiensis</i>	2
1498	<i>Clostridium histolyticum</i>	2
5514	<i>Fusarium sporotrichioides</i>	2
47519	<i>Calystegia sepium</i>	2
480	<i>Moraxella catarrhalis</i>	2
210007	<i>Streptococcus mutans UA159</i>	2
6550	<i>Mytilus edulis</i>	2
11091	NA	2
266834	<i>Sinorhizobium meliloti 1021</i>	2
11700	NA	2

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4931 <i>Saccharomyces bayanus</i>	2
382841 <i>Influenza A virus (A/seal/MA/3984/1992(H3N3))</i>	2
50339 <i>Thermoplasma volcanium</i>	2
1829 <i>Rhodococcus rhodochrous</i>	2
536 <i>Chromobacterium violaceum</i>	2
219334 <i>Lactobacillus casei subsp. casei ATCC 393</i>	2
29303 <i>Streptomyces cattleya</i>	2
672 <i>Vibrio vulnificus</i>	2
10995 <i>Infectious bursal disease virus</i>	2
3527 <i>Phytolacca americana</i>	2
11138 <i>Murine hepatitis virus</i>	2
45441 <i>Enterobacteria phage L</i>	2
12107 <i>Mengo virus</i>	2
54914 <i>Brevibacillus parabrevis</i>	2
523849 <i>Thermococcus litoralis DSM 5473</i>	2
67825 <i>Citrobacter rodentium</i>	2
2743 <i>Marinobacter hydrocarbonoclasticus</i>	2
3663 <i>Cucurbita pepo</i>	2
4754 <i>Pneumocystis carinii</i>	2
374844 <i>Enterobacteria phage G4 sensu lato</i>	2
5539 <i>Scytalidium lignicola</i>	2
426430 <i>Staphylococcus aureus subsp. aureus str. Newman</i>	2
300 <i>Pseudomonas mendocina</i>	2
190650 <i>Caulobacter crescentus CB15</i>	2
59837 <i>Leiostomus xanthurus</i>	2
6561 <i>Scapharca inaequivalvis</i>	2
28572 <i>Penicillium funiculosum</i>	2
1553 <i>Clostridium tetanomorphum</i>	2
171101 <i>Streptococcus pneumoniae R6</i>	2
5699 <i>Trypanosoma vivax</i>	2
51336 <i>Cabbage leaf curl virus</i>	2
643680 <i>Saccharomyces cerevisiae EC1118</i>	2
10715 <i>Staphylococcus phage 42D.m</i>	2
83331 <i>Mycobacterium tuberculosis CDC1551</i>	2
8631 <i>Laticauda semifasciata</i>	2
5341 <i>Agaricus bisporus</i>	2
5827 <i>Plasmodium cynomolgi</i>	2
55084 <i>Pandinus imperator</i>	2
6436 <i>Themiste dyscritum</i>	2
10832 <i>Tomato yellow leaf curl virus</i>	2
11070 <i>Dengue virus 4</i>	2
258594 <i>Rhodopseudomonas palustris CGA009</i>	2
4787 <i>Phytophthora infestans</i>	2
375732 <i>Influenza A virus (A/swine/England/191973/92(H1N7))</i>	2
47914 <i>Brevibacterium fuscum</i>	2
1744 <i>Propionibacterium freudenreichii</i>	2
6182 <i>Schistosoma japonicum</i>	2
70698 <i>M28 virus</i>	2
91753 <i>Cucurbit aphid-borne yellows virus</i>	2
289329 <i>Influenza B virus (B/Maryland/1/01)</i>	2
11707 <i>Human immunodeficiency virus type 1 (HXB3 ISOLATE)</i>	2
135461 <i>Bacillus subtilis subsp. subtilis</i>	2



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4934 <i>Lachancea kluyveri</i>	2
5138 NA	2
1580 <i>Lactobacillus brevis</i>	2
192 <i>Azospirillum brasilense</i>	2
10345 <i>Suid herpesvirus 1</i>	2
13249 <i>Rhodnius prolixus</i>	2
544 <i>Citrobacter</i>	2
31958 <i>Amycolatopsis orientalis</i>	2
1642 <i>Listeria innocua</i>	2
12116 <i>Foot-and-mouth disease virus - type C</i>	2
186538 <i>Zaire ebolavirus</i>	2
6437 NA	2
77133 <i>uncultured bacterium</i>	2
11072 <i>Japanese encephalitis virus</i>	2
273063 <i>Sulfolobus tokodaii str. 7</i>	2
1334 <i>Streptococcus dysgalactiae</i>	2
9669 <i>Mustela putorius furo</i>	2
129910 <i>Arthrospira maxima</i>	2
12147 <i>Tomato bushy stunt virus (STRAIN CHERRY)</i>	2
305 <i>Ralstonia solanacearum</i>	2
10553 <i>Fowl adenovirus 1</i>	2
28875 <i>Rotavirus A</i>	2
80863 <i>Populus tremula x Populus alba</i>	2
899 <i>Desulfomicrobium baculatum</i>	2
11104 <i>Hepatitis C virus (isolate 1)</i>	2
8175 <i>Sparus aurata</i>	2
34007 <i>Paracoccus versutus</i>	2
12080 <i>Human poliovirus 1</i>	2
350 <i>Zoogloea ramigera</i>	2
65406 <i>Pseudomonas sp. 7A</i>	2
223283 <i>Pseudomonas syringae pv. tomato str. DC3000</i>	2
6884 <i>Leiurus quinquestriatus hebraeus</i>	2
11176 <i>Newcastle disease virus</i>	2
272626 <i>Listeria innocua Clip11262</i>	2
11604 <i>Puumala virus</i>	2
348776 <i>Mycobacterium tuberculosis C</i>	2
6442 <i>Phascolopsis gouldii</i>	2
587 <i>Providencia rettgeri</i>	2
77763 <i>Banna virus</i>	2
3679 <i>Ecballium elaterium</i>	2
1338 <i>Streptococcus intermedius</i>	2
318586 <i>Paracoccus denitrificans PD1222</i>	2
9675 <i>Paguma larvata</i>	2
4839 <i>Rhizomucor miehei</i>	2
1467 <i>Bacillus lentus</i>	2
12023 <i>Pseudomonas phage PP7</i>	2
379746 <i>Influenza A virus (A/sw/Obihiro/1/1994(H3N2))</i>	2
47969 <i>Oreochromis aureus</i>	2
192387 <i>Alicyclobacillus sendaiensis</i>	2
62887 <i>Gliocladium</i>	2
1956 <i>Streptomyces diastaticus</i>	2
2271 <i>Thermoproteus tenax</i>	2

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7165 <i>Anopheles gambiae</i>	2
80866 <i>Delftia acidovorans</i>	2
31645 <i>Hepatitis C virus (isolate Taiwan)</i>	2
269084 <i>Synechococcus elongatus</i> PCC 6301	2
8212 NA	2
34028 <i>Comamonas</i> sp.	2
290397 <i>Anaeromyxobacter dehalogenans</i> 2CP-C	2
334413 <i>Finegoldia magna</i> ATCC 29328	2
6359 <i>Platynereis dumerilii</i>	2
244589 <i>Sulfolobus virus 1</i>	2
7460 <i>Apis mellifera</i>	2
32002 <i>Achromobacter denitrificans</i>	2
11868 <i>Avian myelocytomatosis virus 29</i>	2
5386 <i>Xerocomus chrysenteron</i>	2
45920 <i>Araneus diadematus</i>	2
12124 <i>Theiler's encephalomyelitis virus</i>	2
405038 <i>Pseudomonas</i> sp. GK16	2
77929 <i>Rhodomonas</i> sp.	2
2788 <i>Porphyra yezoensis</i>	2
30308 <i>Ichthyomyzon unicuspis</i>	2
11077 <i>Kunjin virus</i>	2
262338 <i>SARS coronavirus GD03T0013</i>	2
1139 NA	2
5059 <i>Aspergillus flavus</i>	2
40353 <i>Echis carinatus</i>	2
12042 <i>Beet western yellows virus</i>	2
10310 <i>Human herpesvirus 2</i>	2
12154 <i>Turnip yellow mosaic virus</i>	2
10560 <i>Bovine papillomavirus type 2</i>	2
214092 <i>Yersinia pestis</i> CO92	2
6703 <i>Pandalus borealis</i>	2
81759 <i>Hyacinthoides hispanica</i>	2
3488 <i>Artocarpus</i>	2
34078 <i>Scytonema hofmanni</i>	2
139270 <i>Newcastle disease virus B1</i>	2
12082 <i>Human poliovirus 1 strain Sabin</i>	2
223 <i>Achromobacter cycloclastes</i>	2
6396 <i>Eisenia fetida</i>	2
74577 <i>Streptomyces</i> sp. UC5319	2
715 <i>Actinobacillus pleuropneumoniae</i>	2
122586 <i>Neisseria meningitidis</i> MC58	2
1479 <i>Bacillus smithii</i>	2
10255 <i>Variola virus</i>	2
158878 <i>Staphylococcus aureus</i> subsp. <i>aureus</i> Mu50	2
280 <i>Xanthobacter autotrophicus</i>	2
10497 <i>African swine fever virus</i>	2
10641 <i>Cauliflower mosaic virus</i>	2
69000 <i>Bacillus</i> sp. B-0618	2
228399 <i>Actinobacillus pleuropneumoniae</i> serovar 1 str. 4074	2
9739 <i>Tursiops truncatus</i>	2
130308 <i>Human adenovirus E</i>	2
39682 <i>Viridovipera stejnegeri</i>	2

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380344	<i>Influenza A virus (A/chicken/Hong Kong/14/1976)(H1N1)</i>	2
167804	<i>Dipsochelys dussumieri</i>	2
48386	<i>Perilla frutescens</i>	2
194439	<i>Chlorobium tepidum</i> TLS	2
512	<i>Alcaligenes</i> sp.	2
2280	<i>Staphylothermus marinus</i>	2
240269	<i>Paramecium bursaria</i> <i>Chlorella virus AN69C</i>	2
269145	<i>Sulfolobus turreted</i> icosahedral virus	2
34305	<i>Lotus japonicus</i>	2
1245	<i>Leuconostoc mesenteroides</i>	2
1585	<i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>	2
10368	<i>Human herpesvirus 6</i>	2
12264	<i>Cowpea mosaic virus</i>	2
10614	<i>Human papillomavirus type 3</i>	2
198214	<i>Shigella flexneri</i> 2a str. 301	2
7668	<i>Strongylocentrotus purpuratus</i>	2
123217	<i>Anopheles cracens</i>	2
12371	<i>Phage h30</i>	2
69014	<i>Thermococcus kodakarensis</i> KOD1	2
89476	NA	2
1520	<i>Clostridium beijerinckii</i>	2
380350	<i>Influenza A virus (A/swine/Beijing/47/1991)(H1N1)</i>	2
319	<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>	2
194699	<i>Bordetella phage BPP-1</i>	2
6238	<i>Caenorhabditis briggsae</i>	2
2021	<i>Thermobifida fusca</i>	2
242619	<i>Porphyromonas gingivalis</i> W83	2
31708	<i>Human rhinovirus 16</i>	2
920	<i>Acidithiobacillus ferrooxidans</i>	2
269446	<i>Rous sarcoma virus (strain Schmidt-Ruppin A)</i>	2
3840	<i>Vigna unguiculata</i> subsp. <i>cylindrica</i>	2
1398	<i>Bacillus coagulans</i>	2
150147	NA	2
5271	<i>Ustilago sphaerogena</i>	2
386585	<i>Escherichia coli</i> O157:H7 str. <i>Sakai</i>	2
5759	<i>Entamoeba histolytica</i>	2
224326	<i>Borrelia burgdorferi</i> B31	2
7719	<i>Ciona intestinalis</i>	2
11641	<i>Human foamy virus</i>	2
11983	<i>Norwalk virus</i>	2
367110	<i>Neurospora crassa</i> OR74A	2
69156	<i>Murine cytomegalovirus (strain K181)</i>	2
28450	<i>Burkholderia pseudomallei</i>	2
228410	<i>Nitrosomonas europaea</i> ATCC 19718	2
11088	<i>Tick-borne encephalitis virus (WESTERN SUBTYPE)</i>	2
11277	<i>Vesicular stomatitis Indiana virus</i>	2
280048	<i>Copaifera langsdorffii</i>	2
4906	<i>Williopsis saturnus</i>	2
5072	NA	2
12066	<i>Coxsackievirus</i>	2
6715	<i>Astacus astacus</i>	2
3496	<i>Maclura pomifera</i>	2

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93061 <i>Staphylococcus aureus subsp. aureus</i> NCTC 8325	2
3843 <i>Erythrina corallodendron</i>	2
1270 <i>Micrococcus luteus</i>	2
9430 <i>Desmodus rotundus</i>	2
11741 <i>Visna/Maedi virus</i>	2
141716 <i>Monomastix sp. OKE-1</i>	2
180454 <i>Anopheles gambiae str. PEST</i>	2
381 <i>Mesorhizobium loti</i>	2
198628 <i>Dickeya dadantii</i> 3937	2
66690 NA	2
2188 <i>Methanococcus voltae</i>	2
10761 <i>Shigella phage Sf6</i>	2
11063 <i>Dengue virus 2 Malaysia M3</i>	2
11642 <i>Simian foamy virus</i>	2
311246 <i>Influenza A virus (A/Mongolia/162/91(H1N1))</i>	2
11879 <i>Avian sarcoma virus PR2257</i>	2
1697 <i>Corynebacterium ammoniagenes</i>	2
419947 <i>Mycobacterium tuberculosis H37Ra</i>	2
6087 <i>Hydra vulgaris</i>	2
563041 <i>Helicobacter pylori</i> G27	2
228928 <i>Influenza A virus (A/Memphis/31/98(H3N2))</i>	2
79261 <i>Streptomyces castaneoglobisporus</i>	2
11089 <i>Yellow fever virus</i>	2
3704 <i>Armoracia rusticana</i>	2
1147 <i>Synechocystis sp. PCC 6714</i>	2
282458 <i>Staphylococcus aureus subsp. aureus</i> MRSA252	2
8844 <i>Anser anser anser</i>	2
4920 <i>Millerozyma farinosa</i>	2
5689 <i>Leishmania tarentolae</i>	2
10711 <i>Enterobacteria phage P21</i>	2
6717 <i>Pontastacus leptodactylus</i>	2
29170 <i>Ancylostoma caninum</i>	2
927 <i>Halothiobacillus neapolitanus</i>	2
93934 <i>Coturnix japonica</i>	2
9490 <i>Saguinus oedipus</i>	2
11742 <i>Visna lentivirus (strain 1514)</i>	2
5306 <i>Phanerochaete chrysosporium</i>	2
5807 <i>Cryptosporidium parvum</i>	2
198803 <i>Bacillus sp. MN-32</i>	2
76275 <i>Rhodococcus sp. R312</i>	2
11065 <i>Dengue virus 2 Thailand/NGS-C/1944</i>	2
257309 <i>Corynebacterium diphtheriae</i> NCTC 13129	2
85698 <i>Achromobacter xylosoxidans</i>	2
8714 <i>Gloydus halys</i>	2
11885 <i>Fujinami sarcoma virus</i>	2
1496 <i>Clostridium difficile</i>	1
11988 <i>Turnip crinkle virus</i>	1
160490 <i>Streptococcus pyogenes</i> M1 GAS	1
190485 <i>Xanthomonas campestris pv. campestris str. ATCC 33</i>	1
12461 <i>Hepatitis E virus</i>	1
565050 <i>Caulobacter crescentus</i> NA1000	1
476 <i>Moraxella bovis</i>	1

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10677 <i>Enterobacteria phage Mu</i>	1
70146 <i>Measles virus strain Edmonston-B</i>	1
229992 <i>SARS coronavirus Frankfurt 1</i>	1
7123 <i>Hyalophora cecropia</i>	1
3120 <i>Ulva pertusa</i>	1
31234 <i>Caenorhabditis remanei</i>	1
11090 <i>Yellow fever virus 17D</i>	1
90736 <i>Moritella marina</i>	1
33903 <i>Streptomyces avermitilis</i>	1
36407 <i>San Miguel sea lion virus 4</i>	1
331111 <i>Escherichia coli E24377A</i>	1
9798 <i>Equus przewalskii</i>	1
40001 <i>Cellulomonas sp.</i>	1
5079 <i>Penicillium janthinellum</i>	1
1528 <i>Eubacterium barkeri</i>	1
10331 <i>Equid herpesvirus 4</i>	1
49899 <i>Thermococcus profundus</i>	1
1823 <i>Nocardia otitidiscaviarum</i>	1
452646 <i>Neovison vison</i>	1
329 <i>Ralstonia pickettii</i>	1
196118 <i>Methanocaldococcus</i>	1
2093 <i>Mycoplasma</i>	1
12814 <i>Respiratory syncytial virus</i>	1
638787 <i>Chimeric Tick-borne encephalitis virus/Dengue virus 4</i>	1
6728 <i>Procambarus clarkii</i>	1
73147 <i>Oat sterile dwarf virus</i>	1
82835 NA	1
940 <i>Hydrogenobacter thermophilus</i>	1
11128 <i>Bovine coronavirus</i>	1
95649 <i>Bothrops neuwiedi pauloensis</i>	1
34649 <i>Mesobuthus martensii</i>	1
11525 <i>Influenza B virus (STRAIN B/BEIJING/1/87)</i>	1
300269 <i>Shigella sonnei Ss046</i>	1
118970 <i>Alcaligenes sp. XY-234</i>	1
37487 <i>Marichromatium purpuratum</i>	1
11788 <i>Abelson murine leukemia virus</i>	1
144185 <i>Leifsonia aquatica</i>	1
45332 <i>Prevotella phage phi AR29</i>	1
12092 <i>Hepatitis A virus</i>	1
390157 <i>Seneca valley virus</i>	1
184922 <i>Giardia lamblia ATCC 50803</i>	1
54571 <i>Streptomyces venezuelae</i>	1
523846 <i>Methanothermus fervidus DSM 2088</i>	1
199306 <i>Coccidioides posadasii</i>	1
67723 <i>Amanita phalloides</i>	1
28039 <i>Lactobacillus leichmannii</i>	1
765312 <i>Saccharomyces cerevisiae A364A</i>	1
76306 <i>Mimosa pudica</i>	1
2504 <i>Plasmid RSF1010</i>	1
29549 <i>Rhodothermus marinus</i>	1
781 <i>Rickettsia conorii</i>	1
257311 <i>Bordetella parapertussis 12822</i>	1

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32060 <i>Phormidium lapideum</i>	1
11235 <i>Measles virus strain Edmonston</i>	1
272944 <i>Rickettsia conorii str. Malish 7</i>	1
102203 <i>Favia fava</i>	1
35703 <i>Citrobacter amalonaticus</i>	1
11666 <i>Equine infectious anemia virus (CLONE P3.2-1)</i>	1
128952 <i>Zaire ebolavirus - Mayinga (Zaire, 1976)</i>	1
38577 <i>Bufo arenarum</i>	1
353796 <i>Streptomyces sp. KK565</i>	1
12009 NA	1
160492 <i>Xylella fastidiosa 9a5c</i>	1
424718 <i>Shigella flexneri 5a</i>	1
10529 <i>Human adenovirus 31</i>	1
59511 <i>Pseudomonas syringae pv. maculicola</i>	1
570133 <i>Cyphastrea microphthalma</i>	1
70174 NA	1
2260 <i>Pyrococcus</i>	1
28503 <i>Sambucus ebulus</i>	1
230105 <i>Methylophaga aminisulfidivorans</i>	1
79679 <i>Thermococcus sp. KS-1</i>	1
3316 <i>Thuja plicata</i>	1
31285 <i>Trypanosoma brucei gambiense</i>	1
90973 <i>Bacillus sp. TA2.A1</i>	1
33931 <i>Bacillus caldovelox</i>	1
11292 <i>Rabies virus</i>	1
284218 <i>Influenza A virus (A/Viet Nam/1203/2004(H5N1))</i>	1
8932 <i>Columba livia</i>	1
1388 <i>Alicyclobacillus acidocaldarius subsp. acidocaldarius</i>	1
331112 <i>Escherichia coli HS</i>	1
40050 <i>African horsesickness virus</i>	1
1550 <i>Clostridium subterminale</i>	1
12230 <i>Turnip mosaic virus</i>	1
453591 <i>Ignicoccus hospitalis KIN4/I</i>	1
196590 NA	1
6282 <i>Onchocerca volvulus</i>	1
64608 <i>Agrocybe cylindracea</i>	1
2094 <i>Mycoplasma arginini</i>	1
12879 NA	1
639283 <i>Starkeya novella DSM 506</i>	1
10714 <i>Corynephage omega</i>	1
6772 <i>Celaca pugilator</i>	1
7245 <i>Drosophila yakuba</i>	1
83131 <i>Cratylia argentea</i>	1
31768 <i>Hepatitis E virus (strain Mexico)</i>	1
959 <i>Bdellovibrio bacteriovorus</i>	1
272559 <i>Bacteroides fragilis NCTC 9343</i>	1
96471 <i>Bacillus sp. YM55-1</i>	1
34839 <i>Chinchilla lanigera</i>	1
1288 <i>Staphylococcus xylosus</i>	1
11531 <i>Influenza B virus (STRAIN B/HONG KONG/8/73)</i>	1
9523 <i>Callicebus moloch</i>	1
118974 <i>Stromatopelma griseipes</i>	1

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37501 <i>Maackia amurensis</i>	1
11791 AKR (endogenous) murine leukemia virus	1
345073 <i>Vibrio cholerae</i> O395	1
155864 <i>Escherichia coli</i> O157:H7 str. EDL933	1
5322 <i>Pleurotus ostreatus</i>	1
392809 Influenza A virus (A/Victoria/3/1975(H3N2))	1
272 <i>Thermus caldophilus</i>	1
185447 <i>Parkia platycephala</i>	1
1897 <i>Streptomyces carzinostaticus</i>	1
12303 Cowpea chlorotic mottle virus	1
6431 <i>Urechis caupo</i>	1
28068 <i>Rubrivivax gelatinosus</i>	1
768679 <i>Thermoproteus tenax</i> Kra 1	1
10829 Squash leaf curl virus	1
7054 <i>Photinus pyralis</i>	1
76854 <i>Shewanella massilia</i>	1
29760 <i>Vitis vinifera</i>	1
813 <i>Chlamydia trachomatis</i>	1
11069 Dengue virus 3	1
7786 <i>Torpedo</i>	1
32536 <i>Acinonyx jubatus</i>	1
8722 <i>Bothrops asper</i>	1
11670 Equine infectious anemia virus (CLONE 1369)	1
9634 <i>Helarctos malayanus</i>	1
129555 <i>Amphitrite ornata</i>	1
38868 <i>Salvia officinalis</i>	1
1434 <i>Bacillus thuringiensis</i> serovar berliner	1
11887 Rous sarcoma virus (strain H-19)	1
12017 Enterobacteria phage fr	1
11 <i>Cellvibrio gilvus</i>	1
10301 Herpes simplex virus (type 1 / strain Angelotti)	1
161736 <i>Pseudomonas</i> phage phi12	1
12139 Southern bean mosaic virus	1
6118 <i>Entacmaea quadricolor</i>	1
12538 Mokola virus	1
10679 Enterobacteria phage P2	1
10886 Mammalian orthoreovirus 3 Dearing	1
230624 <i>Trametes ochracea</i>	1
7141 <i>Choristoneura fumiferana</i>	1
11099 Bovine viral diarrhea virus 1	1
266835 <i>Mesorhizobium loti</i> MAFF303099	1
91201 <i>Gastrodia elata</i>	1
33950 <i>Thermoanaerobacterium thermosulfurigenes</i>	1
9030 <i>Gallus</i>	1
134821 <i>Ureaplasma parvum</i>	1
40051 Bluetongue virus	1
188 <i>Magnetospirillum magnetotacticum</i>	1
12242 Tobacco mosaic virus	1
6334 <i>Trichinella spiralis</i>	1
65124 <i>Wiseana signata</i> NPV	1
220668 <i>Lactobacillus plantarum</i> WCFS1	1
29309 <i>Streptomyces verticillus</i>	1

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674 <i>Vibrio mimicus</i>	1
11008 <i>Saccharomyces cerevisiae</i> virus L-A (L1)	1
7370 <i>Musca domestica</i>	1
964 <i>Herbaspirillum seropedicae</i>	1
11142 <i>Murine hepatitis virus strain A59</i>	1
3873 <i>Lupinus luteus</i>	1
34864 NA	1
11552 <i>Influenza C virus</i>	1
356411 <i>Hepatitis C virus JFH-1</i>	1
45596 <i>Candida tenuis</i>	1
394503 <i>Clostridium cellulolyticum</i> H10	1
273 NA	1
10383 <i>Herpesvirus saimiri</i> (strain 11)	1
12305 <i>Cucumber mosaic virus</i>	1
28081 <i>Bordetella</i> sp.	1
584 <i>Proteus mirabilis</i>	1
76935 <i>Bacillus agaradhaerens</i>	1
2771 <i>Cyanidium caldarium</i>	1
29910 <i>Tolypocladium inflatum</i>	1
86600 <i>Discosoma</i> sp.	1
35806 <i>Rhodovulum sulfidophilum</i>	1
315277 <i>Chlamydia trachomatis</i> A/HAR-13	1
9667 NA	1
38945 <i>Flammulina velutipes</i>	1
1445 <i>Bacillus alcalophilus</i>	1
11888 <i>Rous sarcoma virus - Prague C</i>	1
12018 <i>Enterobacteria phage GA</i>	1
16 <i>Methylophilus</i>	1
10304 <i>Herpes simplex virus</i> (type 1 / strain F)	1
5541 <i>Thermomyces lanuginosus</i>	1
431947 <i>Porphyromonas gingivalis</i> ATCC 33277	1
10533 <i>Human adenovirus 1</i>	1
192168 <i>Arthrobacter</i> sp. C2-2	1
61172 <i>Laguna Negra virus</i>	1
1938 <i>Streptomyces viridochromogenes</i>	1
12541 <i>Nudaurelia capensis omega virus</i>	1
574961 <i>Saccharomyces cerevisiae</i> JAY291	1
10680 <i>Enterobacteria phage P4</i>	1
28737 <i>Elephantulus edwardii</i>	1
237020 <i>Porcine torovirus</i>	1
79930 <i>Methanothermobacter thermautotrophicus</i> str. Winter	1
3349 <i>Pinus sylvestris</i>	1
31552 <i>Human papillomavirus type 6</i>	1
887 NA	1
267067 <i>Enterococcus doylei</i>	1
3750 <i>Malus x domestica</i>	1
33953 <i>Clostridium aminobutyricum</i>	1
113192 <i>Bothrops pirajai</i>	1
36659 <i>Volvariella volvacea</i>	1
145263 <i>Methanothermobacter marburgensis</i>	1
43306 <i>Pseudomonas denitrificans</i>	1
51350 <i>Brassica rapa</i> subsp. <i>rapa</i>	1



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493803	<i>Merkel cell polyomavirus</i>	1
346	<i>Xanthomonas citri</i>	1
196627	<i>Corynebacterium glutamicum</i> ATCC 13032	1
6339	<i>Heligmosomoides polygyrus</i>	1
2108	<i>Mycoplasma</i> sp.	1
644282	<i>Desulfarculus baarsii</i> DSM 2075	1
221204	<i>Hieracium pilosella</i>	1
6853	<i>Tachypleus tridentatus</i>	1
29323	<i>Thermoanaerobacter brockii</i>	1
677	NA	1
243277	<i>Vibrio cholerae</i> O1 biovar El Tor str. N16961	1
7389	<i>Hypoderma lineatum</i>	1
3559	<i>Chenopodium album</i>	1
272624	<i>Legionella pneumophila</i> subsp. <i>pneumophila</i> str. <i>Phila</i>	1
8644	<i>Naja mossambica</i>	1
97234	<i>Dryopteris crassirhizoma</i>	1
35170	<i>Corallina officinalis</i>	1
301448	<i>Streptococcus pyogenes</i> serotype M3	1
4550	<i>Secale cereale</i>	1
37632	<i>Amycolatopsis</i> sp.	1
157732	<i>Rhodococcus</i> sp. NCIMB 9784	1
5346	<i>Coprinopsis cinerea</i>	1
401671	HIV-1 M:B_89.6	1
12315	<i>Tomato aspermy virus</i>	1
68170	<i>Lechevalieria aerocolonigenes</i>	1
28094	<i>Burkholderia caryophylli</i>	1
7070	<i>Tribolium castaneum</i>	1
30076	<i>Triatoma infestans</i>	1
260674	<i>Citrullus lanatus</i> subsp. <i>vulgaris</i>	1
8729	<i>Crotalus adamanteus</i>	1
3983	<i>Manihot esculenta</i>	1
4837	<i>Phycomyces blakesleeanus</i>	1
39152	<i>Methanococcus maripaludis</i>	1
1449	<i>Amphibacillus xylanus</i>	1
40245	<i>Cucumaria echinata</i>	1
376619	<i>Francisella tularensis</i> subsp. <i>holarctica</i> LVS	1
10306	<i>Human herpesvirus 1</i> strain KOS	1
163106	NA	1
5547	<i>Trichoderma viride</i>	1
47935	<i>Mouse polyomavirus</i> (strain p16 small-plaque)	1
432528	<i>Grammostola rosea</i>	1
192222	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> NCTC 11168	1
61861	<i>Canavalia brasiliensis</i>	1
1950	<i>Streptomyces peucetius</i>	1
12558	<i>Sesbania mosaic virus</i>	1
585520	<i>Lactobacillus helveticus</i> DSM 20075	1
491	<i>Neisseria meningitidis</i> serogroup B	1
10683	<i>Bacillus phage PBS1</i>	1
212017	<i>Lethocerus indicus</i>	1
6644	NA	1
70821	<i>Desmodium yellow mottle virus</i>	1
10896	NA	1

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3352 <i>Pinus taeda</i>	1
267608 <i>Ralstonia solanacearum</i> GMI1000	1
3816 <i>Abrus precatorius</i>	1
1172 <i>Anabaena variabilis</i>	1
11467 NA	1
290338 <i>Citrobacter koseri</i> ATCC BAA-895	1
113636 <i>Populus tremula</i>	1
11708 <i>Human immunodeficiency virus type 1 (ZAIRE 6 ISOL)</i>	1
137208 NA	1
4952 <i>Yarrowia lipolytica</i>	1
43759 <i>Streptomyces wedmorensis</i>	1
383561 <i>Influenza A virus (A/swine/Italy/1850/1977(H3N2))</i>	1
175771 <i>Heteractis crispa</i>	1
10593 <i>Human papillomavirus type 45</i>	1
196914 <i>Actinoplanes friuliensis</i>	1
6352 NA	1
13616 <i>Monodelphis domestica</i>	1
652616 <i>Mycobacterium tuberculosis str. Erdman</i>	1
10726 <i>Enterobacteria phage T5</i>	1
74546 <i>Prochlorococcus marinus str. MIT 9312</i>	1
29339 <i>Bacillus thuringiensis serovar kurstaki</i>	1
686 <i>Vibrio cholerae O1 biovar El Tor</i>	1
243365 <i>Chromobacterium violaceum</i> ATCC 12472	1
7425 <i>Nasonia vitripennis</i>	1
32001 <i>Alcaligenes faecalis subsp. faecalis</i>	1
98360 <i>Salmonella enterica subsp. enterica serovar Dublin</i>	1
35269 <i>Woodchuck hepatitis virus</i>	1
1302 <i>Streptococcus gordonii</i>	1
301887 <i>Echinophyllia sp. SC22</i>	1
37682 <i>Aegilops tauschii</i>	1
11863 <i>Avian erythroblastosis virus (strain S13)</i>	1
157791 <i>Vigna radiata</i>	1
5353 <i>Lentinula edodes</i>	1
45916 <i>Nostoc ellipsosporum</i>	1
12118 <i>Foot-and-mouth disease virus - type O</i>	1
404579 <i>Pseudomonas sp. PS-7</i>	1
186539 <i>Reston ebolavirus</i>	1
5850 <i>Plasmodium knowlesi</i>	1
55810 <i>Bulinus truncatus</i>	1
12336 <i>Clostridium phage c-st</i>	1
538123 <i>Mammalian orthoreovirus 3</i>	1
435 <i>Acetobacter aceti</i>	1
204722 <i>Brucella suis 1330</i>	1
68197 <i>Streptomyces fimbriatus</i>	1
28278 <i>Human adenovirus 19</i>	1
837 <i>Porphyromonas gingivalis</i>	1
11073 <i>Japanese encephalitis virus strain SA-14</i>	1
261594 <i>Bacillus anthracis str. 'Ames Ancestor'</i>	1
7801 <i>Ginglymostoma cirratum</i>	1
273068 <i>Thermoanaerobacter tengcongensis</i> MB4	1
103904 <i>Coxsackievirus B3 (strain Woodruff)</i>	1
129951 <i>Human adenovirus C</i>	1

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39300 <i>Ectatomma tuberculatum</i>	1
5053 <i>Aspergillus aculeatus</i>	1
40324 <i>Stenotrophomonas maltophilia</i>	1
1511 <i>Clostridium sticklandii</i>	1
10308 <i>Herpes simplex virus (type 1 / strain Patton)</i>	1
163653 NA	1
5554 <i>Trichosporon cutaneum</i>	1
1760 <i>Actinobacteria (class)</i>	1
12149 <i>Belladonna mottle virus</i>	1
6185 <i>Schistosoma haematobium</i>	1
591001 <i>Acidaminococcus fermentans DSM 20731</i>	1
213804 <i>Janthinobacterium sp. J3</i>	1
6689 <i>Litopenaeus vannamei</i>	1
28896 <i>Thermoanaerobacterium saccharolyticum</i>	1
648 <i>Aeromonas caviae</i>	1
10900 <i>Bluetongue virus (serotype 10 / American isolate)</i>	1
237895 <i>Cryptosporidium hominis</i>	1
92652 <i>Shrimp white spot syndrome virus</i>	1
9092 NA	1
115117 <i>Desulfovibrio desulfuricans subsp. desulfuricans</i>	1
37114 <i>Human papillomavirus type 55</i>	1
137221 <i>Rheum palmatum</i>	1
10092 <i>Mus musculus domesticus</i>	1
5145 <i>Podospora anserina</i>	1
1583 <i>Weissella confusa</i>	1
52275 <i>Human adenovirus 37</i>	1
509627 <i>Hepatitis E virus Ct1</i>	1
10598 <i>Human papillomavirus type 58</i>	1
65553 <i>Sulfurospirillum deleyianum</i>	1
2130 <i>Ureaplasma urealyticum</i>	1
13686 <i>Solenopsis invicta</i>	1
549 <i>Pantoea agglomerans</i>	1
74567 NA	1
2337 <i>Thermotoga neapolitana</i>	1
29342 <i>Clostridium botulinum D phage</i>	1
713 <i>Actinobacillus</i>	1
11036 <i>Venezuelan equine encephalitis virus</i>	1
3567 <i>Amaranthus caudatus</i>	1
272627 <i>Magnetospirillum magnetotacticum MS-1</i>	1
35304 <i>Bunyamwera virus</i>	1
306263 <i>Campylobacter lari RM2100</i>	1
9548 <i>Macaca radiata</i>	1
37734 <i>Enterococcus casseliflavus</i>	1
1411 <i>Bacillus akibai</i>	1
348780 <i>Natronomonas pharaonis DSM 2160</i>	1
11914 NA	1
276 <i>Thermus filiformis</i>	1
10450 <i>Orgyia pseudotsugata single capsid nucleopolyhedrovirus</i>	1
12345 <i>Bacillus phage GA-1</i>	1
542959 <i>Bpp-1-like viruses</i>	1
438 <i>Acetobacter pasteurianus</i>	1
10637 <i>Mouse polyomavirus (strain Crawford small-plaque)</i>	1

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204723 <i>Peniophora</i> sp. SG	1
6454 <i>Haliotis rufescens</i>	1
592 NA	1
228330 SARS coronavirus Urbani	1
88764 <i>Conus episcopatus</i>	1
3690 <i>Populus x canadensis</i>	1
33178 <i>Aspergillus terreus</i>	1
11261 Human respiratory syncytial virus strain RSS-2	1
103929 Rabies virus strain Pasteur vaccin	1
35933 <i>Podophyllum peltatum</i>	1
130081 <i>Galdieria sulphuraria</i>	1
39443 Carnation Italian ringspot virus	1
1512 <i>Clostridium symbiosum</i>	1
68 <i>Lysobacter</i>	1
167644 <i>Ilyobacter tartaricus</i>	1
47982 <i>Plexaura homomalla</i>	1
1763 <i>Mycobacterium</i>	1
192952 <i>Methanosarcina mazei</i> Go1	1
1963 <i>Streptomyces olivochromogenes</i>	1
12618 Chicken anemia virus	1
608538 <i>Hydrogenobacter thermophilus</i> TK-6	1
71366 <i>Staphylococcus phage</i> PVL	1
2277 <i>Pyrobaculum islandicum</i>	1
658 <i>Photobacterium leiognathi</i> subsp. <i>leiognathi</i>	1
10905 Bluetongue virus (serotype 1 / isolate South Africa)	1
239963 <i>Pontellina plumata</i>	1
7168 <i>Anopheles dirus</i>	1
907 <i>Megasphaera elsdenii</i>	1
269086 <i>Pseudomonas</i> sp. SY-77-1	1
11480 NA	1
115547 uncultured archaeon	1
4120 <i>Ipomoea batatas</i>	1
37122 Human papillomavirus type 6a	1
336203 <i>Sphingobium fuliginis</i>	1
10095 <i>Mus</i> sp.	1
148603 <i>Mycobacterium phage</i> Bxb1	1
44160 <i>Bacillus circulans</i> subsp. <i>alkalophilus</i>	1
1584 <i>Lactobacillus delbrueckii</i>	1
384510 Influenza A virus (A/tern/South Africa/1961(H5N3))	1
5741 <i>Giardia intestinalis</i>	1
52853 <i>Silene latifolia</i> subsp. <i>alba</i>	1
12260 Bean pod mottle virus	1
197780 Bluetongue virus 8	1
65699 <i>Neisseria meningitidis</i> serogroup A	1
696747 <i>Arthrospira platensis</i> NIES-39	1
2371 <i>Xylella fastidiosa</i>	1
29388 <i>Staphylococcus capitis</i>	1
11047 Equine arteritis virus	1
7594 <i>Patiria pectinifera</i>	1
3570 <i>Dianthus caryophyllus</i>	1
32044 <i>Pseudomonas mevalonii</i>	1
11195 Sendai virus (strain Fushimi)	1

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8665 <i>Ophiophagus hannah</i>	1
99565 <i>Chiba virus</i>	1
3891 <i>Psophocarpus tetragonolobus</i>	1
35345 <i>Lactococcus phage TP901-1</i>	1
9556 <i>Papio cynocephalus</i>	1
37762 <i>Escherichia coli B</i>	1
11873 <i>Avian musculoaponeurotic fibrosarcoma virus AS42</i>	1
349975 <i>Simian immunodeficiency virus - agm.tan-1</i>	1
11926 <i>Human T-cell lymphotropic virus type 1 (strain ATK)</i>	1
360393 <i>Breda virus serotype 1</i>	1
1669 <i>Arthrobacter sp. NRRL B3728</i>	1
405212 <i>Alicyclobacillus acidocaldarius</i>	1
56812 <i>Shewanella frigidimarina</i>	1
1914 <i>Streptomyces lavendulae</i>	1
553611 <i>Photobacterium leiognathi</i>	1
442 <i>Gluconobacter oxydans</i>	1
6456 <i>Haliotis fulgens</i>	1
10863 <i>Enterobacteria phage f1</i>	1
78245 <i>Xanthobacter autotrophicus Py2</i>	1
3053 NA	1
7957 <i>Carassius auratus</i>	1
3691 <i>Populus nigra</i>	1
33703 <i>Suid herpesvirus 1 strain Kaplan</i>	1
4072 <i>Capsicum annuum</i>	1
35936 <i>Lablab purpureus</i>	1
324602 <i>Chloroflexus aurantiacus J-10-fl</i>	1
12054 <i>unidentified tobacco necrosis virus</i>	1
437607 <i>Influenza A virus (A/hvPR8/34(H1N1))</i>	1
6206 <i>Taenia saginata</i>	1
63330 <i>Hendra virus</i>	1
2017 <i>Streptoalloteichus hindustanus</i>	1
627343 <i>Zymomonas mobilis subsp. mobilis CP4</i>	1
10690 <i>Haemophilus phage HP1</i>	1
216371 <i>Penicillium stoloniferum virus S</i>	1
6706 <i>Homarus americanus</i>	1
659 <i>Photobacterium phosphoreum</i>	1
81841 <i>Pseudomonas sp. 130</i>	1
92829 <i>Xanthomonas axonopodis pv. citri</i>	1
3837 <i>Dioclea grandiflora</i>	1
291940 <i>Artocarpus hirsutus</i>	1
9267 <i>Didelphis virginiana</i>	1
37133 <i>Tula virus</i>	1
1397 <i>Bacillus circulans</i>	1
140147 <i>uncultured beta proteobacterium UMTRA-608</i>	1
10114 <i>Rattus</i>	1
149539 <i>Salmonella enterica subsp. enterica serovar Enteritidis</i>	1
44270 <i>Leishmania mexicana mexicana</i>	1
12083 <i>Human poliovirus 2</i>	1
385684 <i>SARS coronavirus CS24</i>	1
228 <i>Pseudoalteromonas haloplanktis</i>	1
178306 <i>Pyrobaculum aerophilum str. IM2</i>	1
5755 <i>Acanthamoeba castellanii</i>	1

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52861 <i>Tabernaemontana divaricata</i>	1
1883 <i>Streptomyces</i>	1
512562 <i>Helicobacter pylori</i> Shi470	1
361 <i>Agrobacterium</i> sp.	1
66188 <i>Micropechis ikaheka</i>	1
698750 <i>Pseudomonas syringae</i> pv. <i>maculicola</i> str. M6	1
6956 <i>Dermatophagoides pteronyssinus</i>	1
75891 <i>Thermus</i> sp. IM6501	1
2378 <i>Sporomusa ovata</i>	1
29390 <i>Streptococcus gordonii</i> str. <i>Challis</i>	1
726 <i>Haemophilus haemolyticus</i>	1
3619 <i>Rumex obtusifolius</i>	1
272631 <i>Mycobacterium leprae</i> TN	1
99571 <i>Dioclea guianensis</i>	1
3902 <i>Ulex europaeus</i>	1
35621 <i>Streptomyces mobaraensis</i>	1
11636 <i>Reticuloendotheliosis virus</i>	1
309800 <i>Haloferax volcanii</i> DS2	1
4615 <i>Ananas comosus</i>	1
37919 <i>Rhodococcus opacus</i>	1
11960 <i>Avian myeloblastosis-associated virus</i>	1
46018 <i>Human echovirus 7</i>	1
1679 <i>Bifidobacterium longum</i> subsp. <i>longum</i>	1
408870 <i>Dengue virus 3 Philippines/H87/1956</i>	1
58217 <i>Loxosceles laeta</i>	1
555778 <i>Halothiobacillus neapolitanus</i> c2	1
206121 <i>Pseudomonas</i> sp. ATCC 19121	1
6494 <i>Conus textile</i>	1
2243 <i>Halobacterium</i> sp.	1
28344 <i>Porcine reproductive and respiratory syndrome virus</i>	1
78447 <i>Corallina pilulifera</i>	1
3054 <i>Chlamydomonas moewusii</i>	1
30608 <i>Microcebus murinus</i>	1
7962 <i>Cyprinus carpio</i>	1
3693 <i>Populus tremuloides</i>	1
277944 <i>Human coronavirus NL63</i>	1
105402 <i>Zoanthus</i> sp.	1
326425 <i>Lactobacillus helveticus</i> CNRZ32	1
9749 <i>Delphinapterus leucas</i>	1
130309 <i>Human adenovirus F</i>	1
39803 <i>Enterobacteria phage Qbeta</i>	1
84 <i>Hyphomicrobium methylovorum</i>	1
10324 <i>Bovine herpesvirus type 1.1 (strain P8-2)</i>	1
168807 <i>Escherichia coli</i> O127:H6	1
10571 <i>Bovine papillomavirus</i>	1
630626 <i>Escherichia blattae</i> DSM 4481	1
515 NA	1
10703 <i>Corynephage beta</i>	1
216591 <i>Burkholderia cenocepacia</i> J2315	1
72539 <i>Physalis mottle virus</i>	1
29015 NA	1
10924 NA	1

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7225 <i>Scaptodrosophila lebanonensis</i>	1
82300 Adeno-associated virus - 5	1
34381 <i>Aspergillus japonicus</i>	1
293055 Influenza A virus (A/mallard/Ohio/556/1987(H5N9))	1
9347 <i>Eutheria</i>	1
117138 Brome streak virus (strain 11-Cal)	1
4232 <i>Helianthus annuus</i>	1
11733 Simian immunodeficiency virus (MM142-83 ISOLATE)	1
337052 Bovine papillomavirus 1	1
9939 <i>Ovis sp.</i>	1
140437 <i>Streptomyces sp. R1128</i>	1
10369 Human herpesvirus 6 (strain GS)	1
178876 <i>Cryptococcus neoformans var. grubii</i>	1
52969 <i>Ascophyllum nodosum</i>	1
517417 <i>Chlorobaculum parvum</i> NCIB 8327	1
6410 <i>Haementeria officinalis</i>	1
66431 <i>Streptomyces thioluteus</i>	1
2186 <i>Methanothermococcus thermolithotrophicus</i>	1
13818 <i>Adiantum capillus-veneris</i>	1
698758 <i>Amphibacillus xylanus</i> NBRC 15112	1
75988 <i>Pachymedusa dactylophora</i>	1
2465 Plasmid F	1
29438 <i>Pseudomonas savastanoi</i>	1
252128 <i>Agrobacterium sp. KNK712</i>	1
85232 <i>Morus nigra</i>	1
3625 <i>Actinidia chinensis</i>	1
32049 <i>Synechococcus sp. PCC 7002</i>	1
272634 <i>Mycoplasma pneumoniae</i> M129	1
35631 <i>Conus imperialis</i>	1
311176 Blotched snakehead virus	1
126592 <i>Hediste diversicolor</i>	1
4641 <i>Musa acuminata</i>	1
11878 Avian sarcoma virus CT10	1
352525 Influenza A virus (A/duck/Potsdam/2216-4/1984(H5N6, -3 NA)	1
160268 <i>Clonostachys</i>	1
5499 <i>Passalora fulva</i>	1
1680 <i>Bifidobacterium adolescentis</i>	1
190304 <i>Fusobacterium nucleatum subsp. nucleatum</i> ATCC 25:	1
58226 <i>Comamonas sp. JS765</i>	1
1921 <i>Streptomyces olivaceoviridis</i>	1
12391 NA	1
471 <i>Acinetobacter calcoaceticus</i>	1
207559 <i>Desulfovibrio desulfuricans subsp. desulfuricans str. G.</i>	1
2246 <i>Haloferax volcanii</i>	1
10870 Enterobacteria phage M13	1
7116 <i>Pieris brassicae</i>	1
264732 <i>Moorella thermoacetica</i> ATCC 39073	1
7998 <i>Ictalurus punctatus</i>	1
33806 NA	1
329852 Enterobacteria phage MS2	1
132475 Yaba-like disease virus	1

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1521 <i>Clostridium cellulolyticum</i>	1
380983 <i>Influenza A virus (A/Leningrad/134/47/1957(H2N2))</i>	1
168809 <i>Arthrobacter sp. AD2</i>	1
49577 <i>Cheilocostus speciosus</i>	1
445985 <i>Borrelia burgdorferi ZS7</i>	1
322 <i>Pseudomonas syringae pv. tabaci</i>	1
63559 <i>Penicillium amagasakiense</i>	1
633146 <i>Rhodobacter sphaeroides GA</i>	1
29017 <i>Ornithoctonus huwena</i>	1
668 <i>Aliivibrio fischeri</i>	1
10927 <i>Bovine rotavirus</i>	1
242743 <i>SARS coronavirus FRA</i>	1
31715 <i>Bean-pod mottle virus (strain Kentucky G7)</i>	1
921 <i>Starkeya novella</i>	1
11120 <i>Infectious bronchitis virus</i>	1
271108 <i>Bombyx mori NPV</i>	1
8400 <i>Rana catesbeiana</i>	1
34413 <i>Humicola insolens</i>	1
11498 <i>Influenza A virus (A/swine/Hong Kong/126/82(H3N2))</i>	1
296210 <i>Penicillium stoloniferum virus F</i>	1
117911 <i>Shewanella sp. SIB1</i>	1
4265 <i>Cynara cardunculus</i>	1
1399 <i>Bacillus firmus</i>	1
150436 <i>Panulirus versicolor</i>	1
5286 <i>Rhodosporidium toruloides</i>	1
44822 <i>Microcystis viridis</i>	1
1589 <i>Lactobacillus pentosus</i>	1
10370 <i>Human herpesvirus 6 (strain Uganda-1102)</i>	1
53412 <i>Pseudomonas resinovorans</i>	1
1890 <i>Streptomyces antibioticus</i>	1
12287 <i>Flock house virus</i>	1
522373 <i>Stenotrophomonas maltophilia K279a</i>	1
703612 <i>Bacillus subtilis subsp. spizizenii ATCC 6633</i>	1
224914 <i>Brucella melitensis bv. 1 str. 16M</i>	1
76114 <i>Aromatoleum aromaticum EbN1</i>	1
2489 <i>Plasmid R483</i>	1
29459 <i>Brucella melitensis</i>	1
7723 <i>Polyandrocarpa misakiensis</i>	1
85618 <i>Ateline herpesvirus 3</i>	1
272844 <i>Pyrococcus abyssi GE5</i>	1
8708 NA	1
3911 <i>Vicia villosa</i>	1
35670 <i>Naja naja</i>	1
126793 <i>Plasmodium vivax Sal-1</i>	1
4670 <i>Galanthus nivalis</i>	1
38420 <i>Simian adenovirus 3</i>	1
1426 <i>Geobacillus thermoglucosidasius</i>	1
352564 <i>Influenza A virus (A/mallard/Astrakhan/263/1982(H14N1))</i>	1
11986 <i>Carnation mottle virus</i>	1
367830 <i>Staphylococcus aureus subsp. aureus USA300</i>	1
160488 <i>Pseudomonas putida KT2440</i>	1
5501 <i>Coccidioides immitis</i>	1



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46758 <i>Lobophyllia hemprichii</i>	1
10519 <i>Human adenovirus 7</i>	1
1924 <i>Streptomyces purpurascens</i>	1
12455 <i>Borna disease virus</i>	1
472 <i>Acinetobacter sp.</i>	1
10668 NA	1
208963 <i>Pseudomonas aeruginosa UCBPP-PA14</i>	1
2252 <i>Haloferax mediterranei</i>	1
7119 <i>Antheraea pernyi</i>	1
3088 <i>Scenedesmus obliquus</i>	1
265872 <i>Cowpox virus (Brighton Red)</i>	1
33900 <i>Streptomyces murinus</i>	1
11280 <i>Vesicular stomatitis New Jersey virus</i>	1
108619 <i>Salmonella enterica subsp. enterica serovar Newport</i>	1
36377 NA	1
1359 <i>Lactococcus lactis subsp. cremoris</i>	1
329853 <i>Enterobacteria phage BZ13</i>	1
40979 <i>Cocksfoot mottle virus</i>	1
10329 <i>Equine herpesvirus type 1 (strain Kentucky A)</i>	1
169066 <i>Human rhinovirus sp.</i>	1
49817 <i>Erythrina crista-galli</i>	1
12222 <i>Soybean mosaic virus</i>	1
448385 <i>Sorangium cellulosum 'So ce 56'</i>	1
196112 <i>Streptomyces sp. X-119-6</i>	1
64091 <i>Halobacterium sp. NRC-1</i>	1
2045 <i>Pimelobacter simplex</i>	1
634468 <i>Escherichia coli HB101</i>	1
73044 <i>Streptomyces seoulensis</i>	1
10969 <i>Rhesus rotavirus</i>	1
7237 <i>Drosophila pseudoobscura</i>	1
3501 <i>Urtica dioica</i>	1
31744 <i>Rice yellow mottle virus</i>	1
11122 <i>Avian infectious bronchitis virus (strain Beaudette)</i>	1
8403 <i>Rana perezi</i>	1
34631 <i>Rhipicephalus appendiculatus</i>	1
298334 <i>Simian adenovirus A</i>	1
37335 <i>Conus pennaceus</i>	1
1400 <i>Bacillus intermedius</i>	1
343250 <i>Daboia russellii siamensis</i>	1
142803 <i>Rice dwarf virus (isolate Akita)</i>	1
154834 <i>Panicum mosaic satellite virus</i>	1
45151 <i>Pyrenophora tritici-repentis</i>	1
387203 <i>Influenza A virus (A/duck/Bavaria/2/1977(H1N1))</i>	1
182271 <i>Pterocarpus angolensis</i>	1
523842 <i>Methanococcus voltae PS</i>	1
66691 NA	1
716541 <i>Enterobacter cloacae subsp. cloacae ATCC 13047</i>	1
563 <i>Escherichia blattae</i>	1
29461 <i>Brucella suis</i>	1
735 <i>Haemophilus parahaemolyticus</i>	1
7748 <i>Lampetra fluviatilis</i>	1
3654 <i>Citrullus lanatus</i>	1

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32059 <i>Phormidium laminosum</i>	1
101510 <i>Rhodococcus jostii</i> RHA1	1
3914 <i>Vigna angularis</i>	1
35688 <i>Porphyridium purpureum</i>	1
311400 <i>Thermococcus kodakarensis</i>	1
126794 <i>Vaccinia virus</i> Ankara	1
4679 <i>Allium cepa</i>	1
38437 NA	1