

DMS ID	Taxon	Seq Length	DMS Num (Single)	DMS Num (Multiple)	Selection Type	MSA Num	MSA Neff Category	Cluster Index
A0A1I9GEU1_NEIME_Kennouche_2019	Prokaryote	161	922	0	Activity	5553	Medium	8
A0A247D711_LJSMN_Stadelmann_2021	Eukaryote	87	1653	0	Activity	1316890	High	2
A4D664_9INFA_Soh_2019	Virus	759	14421	0	Organismal Fitness	26683	Medium	3
A4_HUMAN_Seuma_2022	Human	770	796	14015	Stability	5272	Low	6
AACC1_PSEAL_Dandage_2018	Prokaryote	177	1801	0	Organismal Fitness	539868	High	10
ADRB2_HUMAN_Jones_2020	Human	413	7800	0	Activity	204722	Medium	9
AICDA_HUMAN_Gajula_2014_3cycles	Human	198	209	0	Activity	18148	Medium	4
ANCSZ_Hobbs_2022	Eukaryote	627	4670	0	Activity	7424	Medium	2
B2L11_HUMAN_Dutta_2010_binding-Mcl-1	Human	198	170	0	Binding	660	Low	3
C6KNH7_9INFA_Lee_2018	Virus	566	10754	0	Organismal Fitness	57453	Medium	5
CAPSD_AAV2S_Sinai_2021	Virus	735	532	41796	Organismal Fitness	604	Low	4
CASP3_HUMAN_Roychowdhury_2020	Human	258	1567	0	Activity	86012	High	1
CASP7_HUMAN_Roychowdhury_2020	Human	281	1680	0	Activity	71075	Medium	1
CD19_HUMAN_Klesmith_2019_FMC_singles	Human	556	3761	0	Binding	1183	Low	5
D7PM05_CLYGR_Somermeier_2022	Eukaryote	235	1169	23346	Activity	694	Low	10
ENVZ_ECOLI_Ghose_2023	Prokaryote	60	1121	0	Activity	1879223	High	3
ESTA_BACSU_Nutschel_2020	Prokaryote	212	2172	0	Stability	234310	High	6
F7YBW7_MESOW_Ding_2023	Prokaryote	93	80	7842	Organismal Fitness	38613	High	9
F7YBW8_MESOW_Aakre_2015	Prokaryote	93	37	9155	Organismal Fitness	38613	High	9
GCN4_YEAST_Staller_2018	Eukaryote	281	33	2605	Binding	350	Low	9
GLPA_HUMAN_Elazar_2016	Human	150	245	0	Expression	273	Low	6
GRB2_HUMAN_Faure_2021	Human	217	1034	62332	Organismal Fitness	33228	Medium	7

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HEM3_HUMAN_Loggerenberg_2023	Human	361	5689	0	Activity	59544	Medium	10
KCNE1_HUMAN_Muhammad_2023_expression	Human	129	2339	0	Expression	2118	Medium	5
KCNJ2_MOUSE_Coyote-Maestas_2022_function	Human	428	6963	0	Activity	20953	Medium	4
LYAM1_HUMAN_Elazar_2016	Human	372	359	0	Expression	3974	Medium	5
MET_HUMAN_Estevam_2023	Human	287	5393	0	Activity	185885	Medium	4
MLAC_ECOLI_MacRae_2023	Prokaryote	211	4007	0	Organismal Fitness	22874	Medium	10
NRAM_I33A0_Jiang_2016	Virus	453	298	0	Organismal Fitness	47174	Low	3
OTC_HUMAN_Lo_2023	Human	354	1570	0	Activity	135607	Medium	2
OXDA_PHOTO_Vanella_2023_expression	Eukaryote	364	6769	0	Expression	520184	High	3
PAI1_HUMAN_Huttinger_2021	Human	402	5345	0	Activity	52528		7
PHOT_CHLRE_Chen_2023	Eukaryote	118	2122	165407	Activity	1627150	High	1
PPARG_HUMAN_Majithia_2016	Human	505	9576	0	Activity	39993	Medium	7
PPM1D_HUMAN_Miller_2022	Human	605	7889	0	Organismal Fitness	1844	Low	1
PRKN_HUMAN_Clausen_2023	Human	465	8756	0	Expression	1457	Low	5
Q53Z42_HUMAN_McShan_2019_expression	Human	365	3344	0	Expression	41636	Medium	6
Q6WV13_9MAXI_Somermeyer_2022	Eukaryote	222	1141	30260	Activity	506	Low	5
Q837P4_ENTFA_Meier_2023	Prokaryote	589	697	0	Activity	343933	Medium	10
Q837P5_ENTFA_Meier_2023	Prokaryote	571	747	0	Activity	346355	Medium	10
R1AB_SARS2_Flynn_2022	Virus	306	5725	0	Organismal Fitness	182169	Medium	5
RDRP_I33A0_Li_2023	Virus	757	12003	0	Organismal Fitness	26589	Low	10
REV_HV1H2_Fernandes_2016	Virus	116	2147	0	Organismal Fitness	15839	Medium	7
RNC_ECOLI_Weeks_2023	Prokaryote	226	4277	0	Activity	66507	Medium	2
RPC1_LAMBD_Li_2019_low-expression	Prokaryote	237	351	0	Activity	100755	High	3
S22A1_HUMAN_Yee_2023_activity	Human	553	10094	0	Activity	198790	Medium	6

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SC6A4_HUMAN_Young_2021	Human	630	11576	0	Activity	40971	Medium	8
SERC_HUMAN_Xie_2023	Human	370	1914	0	Organismal Fitness	232438	High	8
SHOC2_HUMAN_Kwon_2022	Human	582	10972	0	Organismal Fitness	22163	Medium	7
TAT_HV1BR_Fernandes_2016	Virus	86	1577	0	Organismal Fitness	12155	High	4