

DMS ID		Taxon	Seq Length	DMS Num (Single)	DMS Num (Multiple)	Selection Type	MSA Num	MSA Neff Category
MYO3_YEAST_Tsuboyama_2023_2BTT		Eukaryote	61	947	2350	Stability	442941	High
DOCK1_MOUSE_Tsuboyama_2023_2M0Y		Eukaryote	66	1213	1702	Stability	705447	High
RL20_AQUAE_Tsuboyama_2023_1GYZ		Prokaryote	59	1121	340	Stability	397758	High
RFAH_ECOLI_Tsuboyama_2023_2LCL		Prokaryote	55	969	357	Stability	86049	High
TNKS2_HUMAN_Tsuboyama_2023_5JRT		Human	59	1118	361	Stability	270654	High
Q6WV13_9MAXI_Somermeyer_2022		Eukaryote	222	1141	30260	Activity	506	Low
VILI_CHICK_Tsuboyama_2023_1YU5		Eukaryote	65	1202	1366	Stability	254210	High
CATR_CHLRE_Tsuboyama_2023_2AMI		Eukaryote	72	1340	563	Stability	551057	High
YNZC_BACSU_Tsuboyama_2023_2JVD		Prokaryote	39	714	1586	Stability	7116	Medium
SDA_BACSU_Tsuboyama_2023_1PV0		Prokaryote	44	834	1936	Stability	1953	Medium
HECD1_HUMAN_Tsuboyama_2023_3DKM		Human	72	1244	4342	Stability	18660	Medium
YAIA_ECOLI_Tsuboyama_2023_2KVT		Prokaryote	52	928	962	Stability	5877	Medium
DNJA1_HUMAN_Tsuboyama_2023_2LO1		Human	65	1216	1048	Stability	280284	High
YAP1_HUMAN_Araya_2012		Human	504	362	9713	Binding	1604	Low
RBPI_HUMAN_Tsuboyama_2023_2KWH		Human	52	975	357	Stability	135922	High
Q8WTC7_9CNID_Somermeyer_2022		Eukaryote	238	1201	32309	Activity	655	Low
UBE4B_HUMAN_Tsuboyama_2023_3L1X		Human	69	1118	2504	Stability	310943	High
OBSCN_HUMAN_Tsuboyama_2023_1V1C		Human	65	1213	1984	Stability	718751	High
UBR5_HUMAN_Tsuboyama_2023_1I2T		Human	58	1094	359	Stability	17888	Medium
PITX2_HUMAN_Tsuboyama_2023_2L7M		Human	52	938	886	Stability	344174	High
RASK_HUMAN_Weng_2022_abundance		Human	188	3066	22946	Expression	260539	High
NUSA_ECOLI_Tsuboyama_2023_1WCL		Prokaryote	69	1306	722	Stability	205612	High

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RCRO_LAMBD_Tsuboyama_2023_1ORC	Prokaryote	63	1195	1083	Stability	392895	High
SAV1_MOUSE_Tsuboyama_2023_2YSB	Eukaryote	43	679	286	Stability	177542	High
SRBS1_HUMAN_Tsuboyama_2023_2O2W	Human	67	1211	345	Stability	708655	High
CSN4_MOUSE_Tsuboyama_2023_1UFM	Eukaryote	72	1353	1942	Stability	39217	Medium
PHOT_CHLRE_Chen_2023	Eukaryote	118	2122	165407	Activity	1627150	High
EPHB2_HUMAN_Tsuboyama_2023_1F0M	Human	66	1239	721	Stability	212234	High
MBD11_ARATH_Tsuboyama_2023_6ACV	Eukaryote	66	1155	961	Stability	26035	Medium
ODP2_GEOSE_Tsuboyama_2023_1W4G	Prokaryote	44	669	465	Stability	163835	High
CBX4_HUMAN_Tsuboyama_2023_2K28	Human	50	917	1365	Stability	108263	High
FECA_ECOLI_Tsuboyama_2023_2D1U	Eukaryote	72	1219	667	Stability	74248	High
MAFG_MOUSE_Tsuboyama_2023_1K1V	Eukaryote	41	762	667	Stability	6178	Medium
ISDH_STAAW_Tsuboyama_2023_2LHR	Prokaryote	55	940	1004	Stability	115488	High
PIN1_HUMAN_Tsuboyama_2023_1I6C	Human	39	686	116	Stability	248269	High
RASK_HUMAN_Weng_2022_binding-DARPin_K55	Human	188	3084	21789	Binding	260539	High
GFP_AEQVI_Sarkisyan_2016	Eukaryote	238	1084	50630	Activity	396	Low
NKX31_HUMAN_Tsuboyama_2023_2L9R	Human	61	1149	1333	Stability	319273	High
PSAE_SYNP2_Tsuboyama_2023_1PSE	Prokaryote	68	1219	360	Stability	1785	Medium
RPC1_BP434_Tsuboyama_2023_1R69	Virus	61	1124	335	Stability	820224	High
BCHB_CHLTE_Tsuboyama_2023_2KRU	Prokaryote	52	890	682	Stability	12079	Medium
RAD_ANTMA_Tsuboyama_2023_2CJJ	Eukaryote	54	774	138	Stability	423275	High
POLG_PESV_Tsuboyama_2023_2MXD	Virus	53	995	4135	Stability	20190	Medium
TCRG1_MOUSE_Tsuboyama_2023_1E0L	Eukaryote	37	621	437	Stability	43363	Medium
SR43C_ARATH_Tsuboyama_2023_2N88	Eukaryote	48	889	694	Stability	101118	High
RD23A_HUMAN_Tsuboyama_2023_1IFY	Human	44	798	221	Stability	100991	High

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NUSG_MYCTU_Tsuboyama_2023_2MI6	Prokaryote	55	1019	361	Stability	102004	High
PR40A_HUMAN_Tsuboyama_2023_IUZH	Human	63	1163	870	Stability	63560	Medium
SPA_STAAU_Tsuboyama_2023_ILP1	Prokaryote	55	1035	1070	Stability	184804	Medium
SPG2_STRSG_Tsuboyama_2023_5UBS	Prokaryote	56	1029	422	Stability	39899	Medium
CBPA2_HUMAN_Tsuboyama_2023_1O6X	Human	72	1357	711	Stability	12711	Medium
BBC1_YEAST_Tsuboyama_2023_1TG0	Eukaryote	64	1084	985	Stability	604824	High
SPTN1_CHICK_Tsuboyama_2023_1TUD	Eukaryote	60	1051	2150	Stability	420793	High
F7YBW8_MESOW_Aakre_2015	Prokaryote	93	37	9155	OrganismalFitness	38613	High
CUE1_YEAST_Tsuboyama_2023_2MYX	Eukaryote	52	955	625	Stability	3213	Medium
F7YBW7_MESOW_Ding_2023	Prokaryote	93	80	7842	OrganismalFitness	38613	High
D7PM05_CLYGR_Somermeier_2022	Eukaryote	235	1169	23346	Activity	694	Low
RCD1_ARATH_Tsuboyama_2023_5OAO	Eukaryote	57	988	273	Stability	6525	Medium
GRB2_HUMAN_Faure_2021	Human	217	1034	62332	OrganismalFitness	33228	Medium
AMFR_HUMAN_Tsuboyama_2023_4G3O	Human	47	820	2152	Stability	17787	Medium
THO1_YEAST_Tsuboyama_2023_2WQG	Eukaryote	41	656	623	Stability	54877	High