



# Functional Epistasis and Evolutionary Dynamics

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Clone Barcodes	Fitness (percent)	95% CI (percent)	Color
GCCGGCCCTATACGAA	1.50	(1.10,1.85)	
AATTGGAGACGATTGG	1.65	(1.10,2.20)	
AGCTATACCCCAACAA	0.50	(0.40,0.60)	
AGCTATACCCCAACAA_CTGATTCTGAGACTG_TACCTACAGACAATCT	0.95	(0.75,1.15)	
AGGGCGTCTCCAGAAT_CAGTGAGCGCCCGTCT	0.60	(0.50,0.75)	
ATCGTTGAATACACGC_CTTGCGCTCGAATGAT	1.30	(1.10,1.45)	
ATCGTTGAATACACGC_CTTGCGCTCGAATGAT_AATTAGGGTTAGCCCC_TTAAC TCGGCAGCCTT	1.65	(1.50,1.80)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG	1.15	(1.10,1.20)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG_TCTCCGCTACGCGAGT_ATTGCCCGACTTTAGC	2.40	(2.25,2.55)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG_TCTCCGCTACGCGAGT_ATTGCCCGACTTTAGC_TCGTGGATGGAGAGTC	2.70	(2.45,2.95)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG_TCTCCGCTACGCGAGT_ATTGCCCGACTTTAGC_TTGAATTCGACTTGGGA	2.90	(2.60,3.25)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG_TCTCCGCTACGCGAGT_ATTGCCCGACTTTAGC_AAGCCGAGGCTATTTC_GACTAGTGGTGTGTAG_CTTGGGATTTGGTAT	4.20	(4.10,4.35)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG_AGATGAACCCGGCCCAT	2.10	(2.05,2.15)	
TCTAAGCGTATTGGTC_ATCCAGCGCTTGGACG_AGATGAACCCGGCCCAT_GGTCTCAAAGCGGT_TGGCGTCGGCGCAGCC_TTGGCCCGCGGGCCAA_TTAAAGACATCGGTA	3.00	(2.65,3.35)	
AATAGTCTGGGGACC_AAGACCCGGAATCAG	0.75	(0.55,0.90)	
TAGTGACTTAGACCTG_CTTATCAACGGTGCTA	1.75	(1.75,1.75)	
TAGTGACTTAGACCTG_CTTATCAACGGTGCTA_TGCCTCGAAGCCCTAT_CAGCAACCCGCTTACA	1.60	(1.45,1.75)	
TAGTGACTTAGACCTG_CTTATCAACGGTGCTA_AAGATTCAGCGTATAA_TACCCTGTACTGTGA	2.00	(1.90,2.05)	
TAGTGACTTAGACCTG_CTTATCAACGGTGCTA_CAACCTGTAATTCTGC_GGCAGGTAGACCTTCA_GAGAAGAATGGAATGA_GCAATACGCTTAAAGT	2.50	(1.95,3.10)	
TACAGGGGATGAAGCT_GTTGATTGGACGGATG	0.95	(0.90,1.00)	
TACAGGGGATGAAGCT_GTTGATTGGACGGATG_ATTACATATGCACGCC_ATTTCGGGGACGCGCC	2.10	(2.10,2.10)	
TACAGGGGATGAAGCT_GTTGATTGGACGGATG_ATTACATATGCACGCC_ATTTCGGGGACGCGCC_TCAGGGAGGTTTCGTC_CGGACCTAGGAGAACC	2.60	(2.50,2.70)	
TACAGGGGATGAAGCT_GTTGATTGGACGGATG_ATTACATATGCACGCC_ATTTCGGGGACGCGCC_AGATAAAGCTGATTGCT_ACCTCAATCATCTCA	3.20	(3.05,3.35)	
TACAGGGGATGAAGCT_GTTGATTGGACGGATG_ATTACATATGCACGCC_ATTTCGGGGACGCGCC_TGTAACCCGGTCCCT_TCCGCCAGTGACTTA	2.85	(2.75,3.00)	
CCTGGAGCAGTCTAAT_CGTGTCCAGCCTCGT	1.05	(1.00,1.15)	
ACTGTACCTGCGGGTT_TGCGCCTTGTGATGTA	0.90	(0.75,1.00)	
TTTGCAACCTGGGT_TATTGCAGTTATGCAG	0.75	(0.75,0.75)	
TTTGCAACCTGGGT_TATTGCAGTTATGCAG_CAACCACCCGCAITCA_TGAGGGAACCCCTTGA_ACGGTTATGTAACCGG_CCTGCCCCAGTAACT	2.65	(2.65,2.65)	
TTTGCAACCTGGGT_TATTGCAGTTATGCAG_TGTTAATCAGGGGGAG	1.20	(1.15,1.25)	
GCATCGTACACCGGAT_GATCCACAGCCTGTAT	0.95	(0.90,1.00)	
GCATCGTACACCGGAT_GATCCACAGCCTGTAT_ATCAGTAAACTTTCAA_GTGGAATCGCTCTGA	1.90	(1.90,1.90)	
CATCCGTTCTCTGTAGA_AGGTCAATCCCTCTT	0.90	(0.80,1.00)	
GGCGAAGCTTAATG_TGCTCAGCACTTAC	0.85	(0.65,1.05)	
AAGATGCTCTAAGCC_CGTTGATGAGTATGGT	1.80	(1.05,2.55)	
ATGGGATGGCTGGCC_CCCCACTAGTACTAT	0.65	(0.45,0.85)	
TACCTAGTTTACAGAC_AAAGATAGGGTCTCTA	0.60	(0.45,0.75)	
GGTGGCCTCATAGTAC_CATTAAGGGAGCGCTC	0.65	(0.50,0.80)	
TGCTCCACAGAGTCC_CCTTTGGGGTGAGACC	0.80	(0.75,0.85)	
TACGGAGCGAACAGTT_TCTCCGAAGTTGGAC	1.00	(0.80,1.15)	
ATAATGAGTGCACCTT_CAAGCATACTTATG	1.65	(1.65,1.65)	
ATAATGAGTGCACCTT_CAAGCATACTTATG_CTAGACACCCGAGCCCT_TTCTCTGAGAAGATTGC_GACCCTCAACACATCG_GGGTCCAAAGGTAAC	2.55	(2.40,2.70)	
TACTTTGGTCGTC_AA_GCTTCTGGGGAAGTAT	1.15	(1.05,1.20)	
AGACCTATATCGCAAT_CCGCTCAGGGTCTAG	0.80	(0.45,1.20)	
ATAGAATGGCTAAAAA_AGACCAGCTTATCAGT_CCAGCTCCCTTTCCGT	1.65	(1.30,1.95)	
ACGCCACGCTCTCAG_CAGCGCTGTGGGTCA_AGATACCAGCTGCTG	0.85	(0.65,1.05)	
CAGGACTAACTCTCC_GCCITCGGTCAAGCCA_GAAAGACGAGGATGC	0.70	(0.45,0.95)	