

Table S5. GO categories corresponding to Molecular Function enriched for mutated Line B of the evolution experiment of Escherichia coli.

GO Term	# genes	#Observed	#Expected	Fold Enrichment
Receptor Activity	50	22	7.57	2.91
Anion Binding	687	145	104.02	1.39
Small Molecule Binding	740	153	112.04	1.37
Catalytic Activity	2005	373	303	1.23

genes in

P-value
1.04E-02
2.47E-02
2.16E-02
2.24E-05