

KOG genes

Regression Coefficient of GC12 vs. GC3, %

R	0.589	- R Squared	0.347		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	36.099	0.141	255.186	<0.0001	
GC3, %	0.214	0.002	91.374	<0.0001	

Note: genes of the functional class **W** were removed according to the analysis of the outliers (<http://home.ubalt.edu/ntsbarsh/Business-stat/otherapplets/Outlier.htm>), in agreement with the results of reference [29].

Regression Coefficient of GCi vs. GC3, %

R	0.805	- R Squared	0.648		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	0.241	0.002	127.281	<0.0001	
GC3, %	0.384	0.003	125.330	<0.0001	

Regression Coefficient of 3'-Flanking GC vs. GC3, %

R	0.761	- R Squared	0.579		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	0.209	0.002	85.904	<0.0001	
GC3, %	0.428	0.004	108.463	<0.0001	

Regression Coefficient of 5'-Flanking GC vs. GC3, %

R	0.533	- R Squared	0.284		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	0.352	0.003	119.758	<0.0001	
GC3, %	0.276	0.005	58.187	<0.0001	

KOG Functional Classes

Regression Coefficient of GC12 vs. GC3, %

R	0.469 - R Squared		0.220		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	39.616	3.817	10.379	<0.0001	
GC3, %	0.223	0.065	2.314	<0.0320	

Note: functional class W was removed according to

Regression Coefficient of GCi vs. GC3, %

R	0.819 - R Squared		0.671		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	0.338	0.022	15.560	<0.0001	
GC3, %	0.223	0.037	6.061	<0.0001	

Regression Coefficient of 3'-Flanking GC vs. GC3, %

R	0.678 - R Squared		0.460		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	0.351	0.029	12.293	<0.0001	
GC3, %	0.189	0.048	3.913	0.0010	

Regression Coefficient of 5'-Flanking GC vs. GC3, %

R	0.298 - R Squared		0.089		
	Coefficient	Std. Error	t-Value	P-Value	
Intercept	0.461	0.041	11.176	<0.0001	
GC3, %	0.092	0.070	1.325	0.2016	
