Table S10. Model selection among one linear model and two non-linear models on the relationship between disease index and expression levels of *RKS1* in natural accessions. Green values indicate a better fit of the logarithmic function in comparison to the two other models. Yellow values indicate a better fit of the exponential function in comparison to the linear model Similar results were obtained after excluding the Omo2-1 outlier accession (see Figure S13) from the statistical analyses.

				lm			ехр			log		
accessions	expression	n	k	AIC	BIC	AICc	AIC	BIC	AICc	AIC	BIC	AICc
all	RKS1-L	88	2	121.06	128.50	121.20	119.64	127.07	119.78	115.45	122.88	115.59
all	RKS1-L+S	88	2	123.79	131.22	123.93	123.98	131.41	124.12	124.44	131.88	124.58
w/o stop codon	RKS1-L	75	2	106.97	113.93	107.14	103.63	110.58	103.80	99.78	106.74	99.95
w/o stop codon	RKS1-L+S	75	2	107.62	114.57	107.79	107.42	114.37	107.59	108.19	115.14	108.36
w/o additional S alleles	RKS1-L	72	2	93.60	100.43	93.77	93.16	99.99	93.33	94.07	100.90	94.24
w/o additional S alleles	RKS1-L+S	72	2	80.32	87.15	80.49	79.81	86.64	79.98	82.50	89.33	82.67

Im: linear model (disease ~ intercept + a*expression); exp: exponential function (disease ~ Ae^{-k*expression}); log: logarithmic function (disease ~ b*log(expression) + c). 'n' and 'k' denote the sample size and the number of parameters, respectively. AIC: Akaike's information criterion; BIC Bayesian information criterion; AICc: corrected AICc.

accessions: 'all': all accessions for which expression level of *RKS1* is available; 'w/o stop codon': all accessions but accessions with the stop codon at the fourth amino-acid in *RKS1*; 'w/o additional S alleles': all accessions but accessions with the stop codon or belonging to the second S susceptible allele embedded in the R intergenic haplogroup.

expression: 'RKS1-L': Relative gene expression (A.U.) of the RKS1 long transcript; 'RKS1-L+S': Relative gene expression (A.U.) of RKS1 total mRNA.