

Table S6: Survival analysis for genes identified as under-expressed in high-risk group
(with low Hazard Ratio values)

Genes affecting Metastasis, Relapse, and Overall survival geneID	10yr OS		10yr RFS		10yr DMFS	
	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank
CX3CR1	0.385	****	0.583	***	0.653	*
ERBB4	0.445	****	0.539	****	0.468	****
DNAJC12	0.448	****	0.544	****	0.508	***
NAT1	0.461	****	0.615	***	0.500	***
PGR	0.462	****	0.627	**	0.359	****
ABAT	0.462	****	0.592	***	0.467	****
LINC00472	0.479	***	0.666	**	0.486	***
IL6ST	0.483	***	0.576	***	0.483	***
SCUBE2	0.508	***	0.704	*	0.545	***
ADRA2A	0.533	***	0.621	**	0.680	*
STC2	0.534	***	0.652	**	0.694	*
TBC1D9	0.542	***	0.664	**	0.492	****
BBOF1	0.570	**	0.501	****	0.692	*
TMC5	0.595	**	0.623	**	0.672	*
OSBPL1A	0.605	**	0.602	***	0.605	**
LAMP5	0.641	*	0.706	*	0.629	**
NME5	0.645	*	0.556	****	0.622	**
KIF13B	0.672	*	0.609	***	0.571	**

geneID	10yr OS		10yr RFS		10yr DMFS	
	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank
SLC25A12	0.498	***	0.600	***	0.831	0.286
STARD13	0.535	***	0.623	**	0.724	0.064
WDR19	0.578	**	0.668	**	0.736	0.077
PSD3	0.606	**	0.652	**	0.895	0.525
ESD	0.606	**	0.611	***	0.903	0.556
CACNA1D	0.608	**	0.593	***	0.896	0.530
CIRBP	0.642	*	0.578	***	0.736	0.076
MATN3	0.687	*	0.625	**	0.764	0.138

geneID	10yr OS		10yr RFS		10yr DMFS	
	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank
NAV2	0.668	*	0.768	0.066	0.884	0.473
FMO5	0.714	0.075	0.673	**	0.884	0.491
PDZRN3	0.734	0.084	0.669	**	0.942	0.729
DRC3	0.825	0.288	0.688	*	0.803	0.215
GLRB	0.743	0.115	0.778	0.095	0.671	*

geneID	10yr OS		10yr RFS		10yr DMFS	
	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank	HR_exp(coef)	p longrank
STK32B	0.733	0.100	0.839	0.229	0.738	0.100
PTPRT	0.778	0.177	0.938	0.656	0.793	0.209
NTRK2	0.800	0.222	0.819	0.179	0.814	0.248
PCSK6	0.834	0.314	0.788	0.098	0.729	0.075
CLMN	1.175	0.366	0.950	0.719	1.462	0.029