

MMS Survival Pathways

	Genes in Pathway	Essential Genes in Pathway	Screen Hits						Not Screen Hits				P= (Total Validated)	P= (Adjusted for Essential Genes)	Total (Validated + Trend)	P= (Total Validated + Trend)	P= (Adjusted for Essential Genes)	Percent of testable Pathway Genes that Validated
			Validated	P= (Validated)	Trend	P= (Validated + Trend)	Did not validate	Adjusted for Essential Genes	Validated	Trend	Total Genes Validated							
BER	20	0	2	3.40E-02	4	3.48E-07	0	NA	6	1	8	2.64E-10	NA	13	2.83E-17	NA	65%	
DDR	22	1	1	NS	0	NA	0	NS	6	4	7	2.27E-08	1.57E-08	11	4.44E-13	2.27E-13	52%	
Proteasome	51	15	5	9.50E-04	0	NA	0	1.80E-04	15	2	20	2.54E-23	3.20E-27	22	7.36E-23	2.53E-27	61%	
GSH	60	0	3	NS	0	NA	0	NA	18	4	21	3.71E-23	NA	25	2.88E-25	NA	42%	
TOR	52	0	6	1.20E-04	1	1.20E-05	2	1.10E-04	16	6	22	2.33E-26	1.37E-26	31	2.94E-37	1.21E-37	61%	
NER	39	0	9	5.27E-09	1	2.44E-10	1	NA	11	3	20	2.72E-26	NA	25	1.36E-31	NA	64%	
MMR	18	0	0	NA	1	NS	0	NA	4	2	4	1.24E-04	NA	7	7.42E-08	NA	39%	
HRR	11	0	2	1.10E-02	0	NA	0	NA	2	2	4	1.45E-05	NA	6	5.36E-08	NA	55%	
RECQ	4	0	1	NS	0	NA	0	NA	0	0	1	NA	NA	1	NA	NA	25%	
Transcription	32	3	6	6.96E-06	1	3.92E-07	5	3.79E-06	6	7	12	2.32E-14	5.58E-15	25	3.58E-35	2.71E-37	86%	
Ribosome	64	9	3	NS	0	NA	3	4.80E-02	7	20	10	4.10E-09	8.97E-09	32	5.25E-35	6.64E-38	58%	
ATPase	46	5	4	4.70E-03	1	5.88E-04	2	3.10E-03	14	4	18	3.81E-21	2.94E-22	25	5.33E-29	8.90E-31	61%	
Notch	20	2	3	3.00E-03	0	NA	0	2.20E-03	5	4	8	2.64E-10	9.43E-11	12	1.95E-15	2.99E-16	67%	