

Table S2. Motifs significantly enriched among top quartile of MPM-2 antigen peptides upregulated in U87-M cells vs. U87-DK controls.

Motif ¹	Motif in Foreground	Motif in Background	Foreground Size	Background Size	Statistical Significance
xD.E.E	6	6	25	95	2.04x10 ⁻⁴
x-.E.-	8	11	25	95	8.24x10 ⁻⁴
S.....x-	5	5	25	95	9.17x10 ⁻⁴
xD.E.-	7	9	25	95	1.05x10 ⁻³
PY..s	6	7	25	95	1.17x10 ⁻³
S....xO	6	8	25	95	3.80x10 ⁻³
S.....s..-	4	4	25	95	3.97x10 ⁻³
S.....s-	4	4	25	95	3.97x10 ⁻³
-.sD.E.E	4	4	25	95	3.97x10 ⁻³
S....x.L	4	4	25	95	3.97x10 ⁻³
S....x.....O	4	4	25	95	3.97x10 ⁻³
S.....xD	4	4	25	95	3.97x10 ⁻³
D.xD	4	4	25	95	3.97x10 ⁻³
FxD.E.-	4	4	25	95	3.97x10 ⁻³
xD.E-E	4	4	25	95	3.97x10 ⁻³
x-	11	23	25	95	9.36x10 ⁻³
xP	13	64	25	95	0.983

¹ “s” = pS; “x” = pS/pT, “.” = Any amino acid, “-” = D/E, “O” = M/I/L/V

Table S3. Motifs significantly enriched among top quartile of MPM-2 antigen peptides upregulated in U87-SH cells vs. U87-DK controls.

Motif ¹	Motif in Foreground	Motif in Background	Foreground Size	Background Size	Statistical Significance
D.x	8	10	25	95	2.73x10 ⁻⁴
-.x-	8	11	25	95	8.24x10 ⁻⁴
-.D.x	5	5	25	95	9.17x10 ⁻⁴
-.s--	7	9	25	95	1.05x10 ⁻³
D.x-	6	7	25	95	1.17x10 ⁻³
-.x	11	20	25	95	2.02x10 ⁻³
.x-	12	23	25	95	2.09x10 ⁻³
-.s	9	15	25	95	2.83x10 ⁻³
D.s	6	8	25	95	3.80x10 ⁻³
-.s-.E	6	8	25	95	3.80x10 ⁻³
-.-.x	6	8	25	95	3.80x10 ⁻³
-.xD	6	8	25	95	3.80x10 ⁻³
-.sD.E.E	4	4	25	95	3.97x10 ⁻³
sD.-.-O	4	4	25	95	3.97x10 ⁻³
-.D.x-	4	4	25	95	3.97x10 ⁻³
D.xD	4	4	25	95	3.97x10 ⁻³
-.XsP.S	4	4	25	95	3.97x10 ⁻³
D.s-.E	5	6	25	95	4.48x10 ⁻³
-.sD.-.-	5	6	25	95	4.48x10 ⁻³
-.s-L-	5	6	25	95	4.48x10 ⁻³
xD.E.E	5	6	25	95	4.48x10 ⁻³
s-	10	19	25	95	5.81x10 ⁻³
xD.-.-	7	11	25	95	6.47x10 ⁻³
s.-.-	9	17	25	95	9.30x10 ⁻³
sD.-.-	6	9	25	95	9.30x10 ⁻³
-.x	6	9	25	95	9.30x10 ⁻³
x.-.-	10	20	25	95	9.60x10 ⁻³
xP	12	63	25	95	0.995

¹“s” = pS; “x” = pS/pT, “.” = Any amino acid, “-” = D/E, “O” = M/I/L/V