

Table S3. The activity of SVBP-VASH1 heterodimer toward peptide substrates detected by mass spectrometry

Proteins	Peptides	MS Intensity (Substrate)	MS Intensity (Product)	Percentage of detyrosination (Product/(Substrate+product))
SVBP ₁₋₆₆ -VASH1 ₇₀₋₃₀₆	EEEGEEY	1.2x10 ⁶	1.2x10 ⁶	50%
SVBP Q35A/R36A ₁₋₆₆ -VASH1 ₇₀₋₃₀₆	EEEGEEY	2.4x10 ⁶	1.0x10 ⁶	29%
SVBP I39A/Y40A ₁₋₆₆ -VASH1 ₇₀₋₃₀₆	EEEGEEY	4.5x10 ⁶	1.1x10 ⁶	20%
SVBP L42A/N43A ₁₋₆₆ -VASH1 ₇₀₋₃₀₆	EEEGEEY	2.0x10 ⁸	3.3x10 ⁶	1.6%
SVBP V45A/M46A ₁₋₆₆ -VASH1 ₇₀₋₃₀₆	EEEGEEY	2.7x10 ⁶	1.0x10 ⁶	27%