

Supplemental Table 5

Gene ID	Product Description
TGME49_210980	Alternative Splicing Type 3 And, Putative
TGME49_233120	AP2 Domain Transcription Factor AP2VIII-2 (AP2VIII2)
TGME49_218960	AP2 Domain Transcription Factor AP2XII-1 (AP2XII1)
TGME49_304630	ATG C Terminal Domain-Containing Protein
TGME49_206450	Autophagy-Related Cysteine Peptidase Atg4, Putative
TGME49_228750	Calcium Dependent Protein Kinase CDPK7 (CDPK7)
TGME49_236530	DUF298 Domain-Containing Protein
TGME49_229630	Eif2 Kinase IF2K-A (Incomplete Catalytic Triad)
TGME49_201120	ELMO/CED-12 Family Protein
TGME49_238400	Endonuclease/Exonuclease/Phosphatase Domain-Containing Protein
TGME49_317720	Eukaryotic Translation Initiation Factor 3 Subunit 7, Putative
TGME49_220360	FAD Binding Domain-Containing Protein
TGME49_262780	FHA Domain-Containing Protein
TGME49_311430	Fibrillarin
TGME49_289050	FIKK Kinase, Putative
TGME49_231010	General Transcription Factor IIE Polypeptide 1 GTF2E1 (GTF2E1)
TGME49_253880	GNS1/SUR4 Family Protein
TGME49_219520	Histone Arginine Methyltransferase PRMT1 (PRMT1)
TGME49_295610	Histone Lysine Methyltransferase, SET, Putative
TGME49_293230	Hypothetical Protein
TGME49_293320	Hypothetical Protein
TGME49_208400	Hypothetical Protein
TGME49_209210	Hypothetical Protein
TGME49_223080	Hypothetical Protein
TGME49_306020	Hypothetical Protein
TGME49_306440	Hypothetical Protein
TGME49_240060	Hypothetical Protein
TGME49_240660	Hypothetical Protein
TGME49_242780	Hypothetical Protein
TGME49_280590	Hypothetical Protein
TGME49_202760	Hypothetical Protein
TGME49_201760	Hypothetical Protein
TGME49_263440	Hypothetical Protein
TGME49_263320	Hypothetical Protein
TGME49_258490	Hypothetical Protein
TGME49_257580	Hypothetical Protein

TGME49_229390	Hypothetical Protein
TGME49_230220	Hypothetical Protein
TGME49_225560	Hypothetical Protein
TGME49_224160	Hypothetical Protein
TGME49_212220	Hypothetical Protein
TGME49_309190	Hypothetical Protein
TGME49_315700	Hypothetical Protein
TGME49_248720	Hypothetical Protein
TGME49_278030	Hypothetical Protein
TGME49_286590	Microtubule Associated Protein SPM2 (SPM2)
TGME49_239560	Myosin E
TGME49_259200	Na ⁺ /H ⁺ Exchanger NHE1
TGME49_286160	Non-Specific Serine/Threonine Protein Kinase
TGME49_273520	PCI Domain-Containing Protein
TGME49_296010	Phosphatidylinositol 3- And 4-Kinase
TGME49_267100	Protein Phosphatase 2C Domain-Containing Protein
TGME49_209130	Regulator Of Chromosome Condensation (RCC1) Repeat-Containing Protein
TGME49_215785	Rhoptry Protein ROP2A (ROP2A)
TGME49_275810	Ribosomal Protein RPS10 (RPS10)
TGME49_313910	RNA Recognition Motif 2 Protein
TGME49_208970	RNA Recognition Motif-Containing Protein
TGME49_283740	RNA Recognition Motif-Containing Protein
TGME49_270640	RNA Recognition Motif-Containing Protein
TGME49_290270	SPRY Domain-Containing Protein
TGME49_203910	TBC Domain-Containing Protein
TGME49_209450	TLD Protein
TGME49_309140	Transducin Beta-Like Protein TBL1 (TBL1)
TGME49_236910	U2 Snrnp Auxiliary Factor, Putative
TGME49_311625	WD Domain, G-Beta Repeat-Containing Protein
TGME49_215440	WWE Domain-Containing Protein
TGME49_256820	Zinc Finger (CCCH Type) Motif-Containing Protein

Supplemental table 5: High confidence candidate PRMT1 substrates.

Proteins present in the MMA intracellular union dataset but not in the PRMT1KO dataset were considered to be candidate PRMT1 substrates. High confidence PRMT1 substrates are candidate PRMT1 substrates whose methylation was restored in PRMT1COMP.