

## Product datasheet for **SC324048**

### PRMT10 (PRMT9) (NM\_138364) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT10 (PRMT9) (NM_138364) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT10
Synonyms:	PRMT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_138364.2  
GGCGAGTTCACCCGCGCGGAGGGTAACCTTTGCTGTGCTGTTTTTTGAGCAGTTGTCTGG  
TCCCTGGAAGTGTAGCATCGAGAGAGTTTTCTAATTACGTTTACAAAATATCTTCCCTTT  
GGCCATACAAGTGGTACTGCCATGTGCAACTCGCGGCCAGGTCCC GCCGAGACGCCGG  
GGGTGGCGCTGGGGCAGCCGGCCGGGACGAGCTGGTGTGCGGGTCTTGCAGAGCGCAGA  
GCACTGTCTGGGCGTCCAGGACTTCGGCACTGCCTATGCCCACTACCTCCTCGTGCTCAG  
CCTGGCGCCGGAGCTGAAACACGACGTGAAGGAACTTTTCAGTACACACTTTTCAGATG  
GGCTGAAGAGCTTGATGCTCTCAGTCGGATACAAGACTTACTTGGTTGCTATGAGCAGGC  
CTTGAACTGTTTCTGATGATGAAGTGATTTGCAATAGTATGGGGGAGCATCTCTTCAG  
AATGGGCTTTAGGGATGAAGCAGCTGGGTATTTTCATAAAGCAGTGAAGCTAAACCCTGA  
TTTCAGTGATGCAAAGGAGAATTTTATCGTGTGCAAACTGGTTGGTGGAACGCTGGCA  
CTTTATCATGCTAATGACACCAAGAGGAATACAATTTATAATGCAGCAATCCAAAAGGC  
AGTTTGTGGGGTCCAAAAGTGTGGACATTGGAGCAGGAAGTGAATACTAAGCAT  
GTTTGCTAAAAAGCTGGAGCACATTCCGTGTATGCCTGTGAGTTATCCAAGACCATGTA  
TGAAGTTCCTGTGATGTCGTGGCAGCAAACAAGATGGAAGCAGGGATCAAACCTTTACA  
TACGAAGTCACTTGACATAGAGATTCCAAAACATATTCCCGAAAGAGTGTCCCTAGTTGT  
AACAGAACTGTGATGACAGTTTATTTGGAGAAGGAATTGTGGAGAGTTTGATTCATGC  
ATGGGAGCATTTACTTTACAGCCAAAGACCAAAGGTGAAAGTGCTAATTGTGAAAAGTA  
TGGGAAAGTTATACCAGCAAGTGTGTTATTTGGGATGGCAGTAGAATGTGCAGAGAT  
AAGAAGACATCATAGAGTGGGTATTAAGGACATTGCTGGTATCCATTTGCCAACAAATGT  
GAAATTTAGAGTCCGGCTTATCTTCTGTAGATACTGAAGAAACAATTGAACCTTATAC  
AACTGAAAAGATGAGTCGAGTTCCTGGAGGATATTTGGCTTTGACAGAGTGTCTTGAAT  
TATGACAGTAGATTTCAACAACCTTCAGGAATTAAGGCTTTGCAACTAAAAAGCCTGA  
TAAGATTGGTATTCTGTTATTAAGAAGGCATAGTAGTCTATTATGGTTTGGTTTGT  
GCTCCAGCTTGATGATGAACATAGTTTATCCACAAGTCTAGTGAGGAAACATGTTGGGA  
ACAGGCTGTCTACCCCGTACAGGACCTTGACAGACTACTGGATAAAGCCTGGAGACCATGT  
GATGATGGAAGTATCTTGTCAAGACTGTTACTTAAGAATCCAGAGTATTAGTGTCTTGGG  
TTTGGAAATGTGAAATGGATGTTGCAAAAAGTTTACCCAGAATAAAGACTTGTTATCGTT  
AGGAAATGAGGCTGAACCTTGTAGTGCCTCGCTAACCTTCAGACCAGTAAACCAGATGC  
TGTAGAGCAGACATGTATTTGGAATCTACAGAAATGCTTTGCTTAACAACATCCATA  
TCATGAAGGCTTTAAAATGGCAATGAGCAAAGTTTGTCTTCACTGACTCCAGAGAACT  
GTATCAGACCATGGATACTCACTGTGAGAAATGAGATGAGCTCTGGAAGTGGACAGAGTAA  
TACTGTACAGAACATCCTTGAACCTTTCTACGTGTTAGATGTGTCCGAAGGCTTCTCTGT  
TCTGCCTGTTATTGCTGGCACACTTGGGCAGGTTAAACCATACAGTTCTGTGGAGAAAGA  
CCAGCATCGTATTGCTCTGGACCTCATATCTGAAGCCAACTCACTTTCCTAAAGAAACACT  
TGAGTTTTGGCTGAGACATGTGGAGGATGAATCTGCTATGTTACAAGGCCAAAAATCAGA  
CAAGTTATGGAGCATAATTATATTGGATGTCATTGAGCCATCTGGGCTCATTGAGCAGGA  
AATAATGGAAAAAGCTGCAATATCCAGGTGTTACTACAATCTGGAGGCAAGATCTTTCC  
TCAGTATGTGCTGATGTTTGGGTTGCTTGTGGAATCACAGACACTCCTAGAGGAGAAATGC  
TGTTCAAGGAACAGAACGTAAGTCTTGGATTAAATATAGCACCTTTTATTAAACAGTTTCA  
GGTACCTATACGTGATTTTTGGACCTATCCTCATTGCCCTGTATACCTTTAAGCAAGCC  
AGTGGAACTCTTAAGACTAGATTTAATGACTCCGATTTTGAACACCTCTAACAGAGAAGT  
AAAGGTATACGTTTGTAAATCTGGAAGACTGACTGCTATTCCATTTTGGTATCATATGTA  
CCTTGATGAAGAGATTAGGTTGGATACTTCAAGTGAAGCCTCCCACTGGAAACAAGCTGC  
AGTTGTTTTAGATAATCCCATCCAGGTTGAAATGGGAGAGGAAGTGTACTCAGCATTCA  
GCATCACAAAAGCAATGTCAGCATCACAGTAAAGCAATGAAGAGCAGTTTTCCAATGAAA  
ACTGTGTAATAAGAGCATCAACAAGTACAAAATCTTGTCTTAATTAGTGGGGTATATA  
AAAATTCCTTGAATGGTCAAATATTTTTTAAAATTGACATTAATAAAGCATATTTTAA  
AGATTCTAAAAAATAAAAAA

**Restriction Sites:** ECoRI-NOT

<b>ACCN:</b>	NM_138364
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_138364.2</a></u> , <u><a href="#">NP_612373.2</a></u>
<b>RefSeq Size:</b>	2842 bp
<b>RefSeq ORF:</b>	2538 bp
<b>Locus ID:</b>	90826
<b>UniProt ID:</b>	<u><a href="#">Q6P2P2</a></u>
<b>Cytogenetics:</b>	4q31.23
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a type II methyltransferase. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from S-adenosyl-L-methionine to the guanidino nitrogen atoms of arginine. The protein encoded by this gene methylates spliceosome associated protein 145 to regulate alternative splicing and acts as a modulator of small nuclear ribonucleoprotein maturation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2017]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>