

Product datasheet for **SC306189**

Prominin 2 (PROM2) (NM_144707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prominin 2 (PROM2) (NM_144707) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prominin 2
Synonyms:	PROML2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_144707 edited
AGAGCTGTGGAGAGAGGGACAGAGGCTGGAGAAGGATGTATGGCCTGCCCTGGGCTTGTC
TGTTCCCTCCTGAGCCTGAGCCCCTTACCTTCTGACCCCATGAAGCACACACTGGCTCT
GCTGGCTCCCCTGCTGGGCTGGGCTGGGCTGGCCCTGAGTCAGCTGGCTGCAGGGGC
CACAGACTGCAAGTTCCTGGCCCGCAGAGCACCTGACATTACCCCAGCAGCCAGGGC
CCGGTGGCTGGCCCCTCGAGTTCGTGCGCCAGGACTCCTGGACTCCCTCTATGGCACCC
CGCCCGTTCCTCTCGGTGGTGCAGCTCAATCCCTTCCCTTCAGAGTTGGTAAAGGCCCT
ACTGAATGAGCTGGCCTCCGTGAAGTGAATGAGGTGGTGGTGGTACGAGCGGGCTACGT
GGTATGCGCTGTGATCGCGGGCCTCTACCTGCTGCTGGTGCCACTGCCGGGCTTTGCTT
CTGCTGCTGCCGCTGCCACCGGCGCTGCGGGGACGAGTGAAGACAGAGCACAAGGCGCT
GGCCTGTGAGCGCGCGGCCCTCATGGTCTTCTGCTGCTGACCACCCTTTGCTGCTGAT
TGGTGTGGTCTGTGCCTTGTACCAACCAGCGCACGCATGAACAGATGGGCCCCAGCAT
CGAGGCCATGCCTGAGACCCTGCTCAGCCTCTGGGGCTGGTCTCTGATGTCCCCAAGA
GCTGCAGGCCGTGGCACGCAATTCTCCCTGCCCAGGAGCAAGTCTCAGAGGAGCTGGA
TGGTGTGGTGTGAGCATTGGGAGCGCATCCACTCAGCTCAGGAGCTCCGTGTACCC
CTTGCTGGCGCCGTGGGCAGTTTGGGCCAGGTCTGCAGGTCTCCGTGCCACCACCTGCA
AACCTTGAATGCTACAGTGGTAGAGCTGCAGGCCGGGCAGCAGGACCTGGAGCCAGCCAT
CCGGGAACACCGGGACCCCTCCTTGAGCTGCTGCAGGAGGCCAGGTGCCAGGGAGATTG
TGCAGGGGCCCTGAGCTGGGCCCGCACCCCTGGAGCTGGGTGCTGACTTCAGCCAGGTGCC
CTCTGTGGACCATGCTCTGCACCAGCTAAAAGGTGTCCCCGAGGCCAACTTCTCCAGCAT
GGTCCAGGAGGAGAACAGCACCTTCAACGCCCTTCCAGCCCTGGCTGCCATGCAGACATC
CAGCGTGGTGAAGAGCTGAAGAAGGCAGTGGCCAGCAGCCGGAAGGGGTGAGGACATC
GGCTGAAGGGTTCGGGGCTTGGAGGCAGCTTCCCGCTGGGCCAGGCACTGCAGGAGGT
GGAGGAGAGCAGCCGCCCTACCTGCAGGAGGTGCAGAGATACGAGACCTACAGGTGGAT
CGTGGGCTGCGTGTGCTCCGTGGTCTATTCTGGTGTCTGCAACCTGCTGGGCT
CAATCTGGGCATCTGGGCTGTCTGCCAGGGACGACCCAGCCACCCAGAAGCCAAGGG
CGAGGCTGGAGCCCGCTTCTCATGGCAGGTGTGGGCTCAGCTTCTCTTTGCTGCACC
CCTCATCTCCTGGTGTTCGCCACCTTCTGGTGGTGGCAACGTGCAGACGCTGGTGTG
CCGGAGCTGGGAGAACGGCGAGCTCTTTGAGTTTGCAGACACCCAGGGAACCTGCCCC
GTCCATGAACCTGTCGCAACTTCTTGGCCTGAGGAAGAATCAGCATCCACCAAGCCTA
TCAGCAGTGCAAGGAAGGGCAGCGCTCTGGACAGTCTGCAGCTCAACGACTCCTACGA
CCTGGAGGAGCAGCTGGATATCAACCAGTATACCAACAAGCTACGGCAGGAGTTGCAGAG
CCTGAAAGTAGACACACAGAGCCTGGACCTGCTGAGCTCAGCCGCCCGGGGACCTGGA
GGCCCTGCAGAGCAGTGGGCTTCCAGCGCATCCACTACCCGACTTCTCGTTTCCAGATCCA
GAGGCCGTGGTGAAGACCAGCATGGAGCAGCTGGCCAGGAGCTGCAAGGACTGGCCCA
GGCCCAAGACAATTCTGTGCTGGGGCAGCGGCTGCAGGAGGAGGCCCAAGGACTCAGAAA
CCTTACCAGGAGAAGGTCTGCCCCAGCAGAGCCTTGTGGCAAAGCTCAACCTCAGCGT
CAGGGCCCTGGAGTCTCTGCCCCGAATCTCCAGCTGGAGACCTCAGATGCTTCCAGCAA
TGTACCTACCTGAAAGGAGAGCTGCCTGCCTGGGCAGCCAGGATCCTGAGGAATGTGAG
TGAGTGTTCCTGGCCCGGAGATGGGCTACTTCTCCAGTACGTGGCCTGGGTGAGAGA
GGAGGTGACTCAGCGCATTGCCACCTGCCAGCCCTCTCCGGAGCCCTGGACAACAGCCG
TGTGATCCTGTGACATGATGGCTGACCCCTGGAATGCCTTCTGGTTCTGCCTGGCATG
GTGCACCTTCTTCTGATCCCCAGCATCATCTTTGCCGTCAAGACCTCCAAATACTCCG
TCCTATCCGAAACGCCTCAGCTCCACCAGCTCTGAGGAGACTCAGCTCTCCACATCCC
CCGGGTACCTCCCTGAAGCTGTAGGGCCTTGTGGAGACGGGGTTTTGCCATGTTGCCCA
GGCTGGAAGTGTCTATGTTTAACTGCATCTTATAAACCAGCAACAAGTTTTCTACTGGGA
ATTAGAATGGTGCATACACAATGTATTATTACTGTGCAGATGAGCATGCTTGAATGTA
GCATGACTGCCTTTTTGCTTTTCTAGAGGTTTTTTTTTGGTGTACTCATCTGTT
GACCTACCTGGGGGAAGTAGCACCTTGCATTTCAAAAATAAAATTGATGGCATTACAAA
TGGAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_144707 unedited</p> <p>GACTTGATTTGTATACCACTTATATAGGCGGCCGCGCATTGCCCCTTAGAGCTGTGGAGA GAGGGACAGAGGCTGGAGAAGGATGTATGGCCTGCCCTGGGCTTGTCTGTTCCCTCCTGA GCCTGAGCCCCTTACCTTCTGACCCCATGAAGCACACACTGGCTCTGCTGGCTCCCCTG CTGGCCCTGGGCTGGGCTGGCCCTGAGTCAGCTGGCTGCAGGGGCCACAGACTGCAAG TTCCTTGGCCCGCAGAGCACCTGACATTACCCCAGCAGCCAGGGCCCGGTGGCTGGCC CCTCGAGTTCGTGCGCCAGGACTCCTGGACTCCCTCTATGGCACCGTGGCCCGTTCCTC TCGGTGGTGCAGCTCAATCCTTTCCCTTACAGAGTTGGTAAAGGCCCTACTGAATGAGCTG GCCTCCGTGAAGGTGAATGAGGTGGTGGGTACGAGGCGGGCTACGTGGTATGCGCTGTG ATCGCGGGCCTCTACCTGCTGCTGGTGGCCACTGCCGGGCTTTGCTTCTGCTGCTGCCGC TGCCACCGGCGCTGCGGGGACGAGTGAAGACAGAGCACAAGGCGCTGGCCTGTGAGCGC GCGGCCCTCATGGTCTTCTGCTGCTGACCACCCTCTTGTGCTGATTGGTGTGGTCTGT GCCTTTGTACCAACCAGCGCACGCATGAACAGATGGGCCCCAGCATCGAGGCCATGCCT GAGACCCTGCTCAGCCTCTGGGCTGGTCTCTGATGTCCCCAAGAGCTGCNAGCCGTG GCACAGCAATTCTCCCTGCCCCAGGACAAGTCTC</p>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_144707 unedited</p> <p>TGCTGGATCACCCCGCCGACCGGAGCCTGCANACATGGGCTTACGCGCATCCACTACCC CGACTTCTCGTTCAGATCCAGAGGCCCGTGGTGAAGACCAGCATGGAGCAGCTGGCCCA GGAGCTGCAAGGACTGGCCAGGCCAAGACAATTCTGTGCTGGGGCAGCGGCTGCAGGA GGAGGCCAAGGACTCAGAAACCTTACCAGGAGAAGGTCGTCGCCAGCAGAGCCTTGT GGCAAAGCTCAACCTCAGCGTCAGGGCCCTGGAGTCTCTGCCCCGAATCTCCAGCTGGA GACCTCAGATGTCTAGCCAATGTCACCTACCTGAAAGGAGAGCTGCCTGCCTGGGACGC CAGGATCCTGAGGAATGTGAGTGTGTTTCTGGCCCGGAGATGGGCTACTTCTCCCA GTACGTGGCCTGGGTGAGAGAGGAGGTGACTCAGCGCATTGCCACCTGCCAGCCCCTCTC CGGAGCCCTGGACAACAGCCGTGTGATCCTGTGTGACATGATGGCTGACCCTGGAATGC CTTCTGGTTCTGCTGGCATGGTGCACCTTCTTCTGATCCCCAGCATCATCTTTGCCGT CAAGACCTCCAAATACTCCGTCCTATCCGAAACGCCTCAGCTCCACCAGCTCTNGAGA GACTCAGCTCTTCCACATCCCCGGGTTACCTCCCTGAAGCTGTANGGCCCTTGTGGAGAC GGGGTTTTGCCATGTTGCCCCAGCTGGGAGTGTCTATGTTTAACTGCATCTTTATAAACA GCAACAAGTTTTCTACTGGGAATTAGAATGGTGCATACACAATGTATTATTA</p>
Restriction Sites:	Please inquire
ACCN:	NM_144707
Insert Size:	2900 bp
OTI Disclaimer:	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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
Components:	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).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_144707.1, NP_653308.1</u>
RefSeq Size:	3822 bp
RefSeq ORF:	2505 bp
Locus ID:	150696
UniProt ID:	<u>Q8N271</u>
Cytogenetics:	2q11.1
Protein Families:	Transmembrane
Gene Summary:	<p>This gene encodes a member of the prominin family of pentaspan membrane glycoproteins. The encoded protein localizes to basal epithelial cells and may be involved in the organization of plasma membrane microdomains. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>