

## Product datasheet for **RC229025**

### Prominin 2 (PROM2) (NM\_001165978) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prominin 2 (PROM2) (NM_001165978) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prominin 2
Synonyms:	PROML2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC229025 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCACACACTGGCTCTGCTGGCTCCCTGCTGGCCTGGCCTGGGCTGGCCTGAGTCAGCTGG  
 CTGCAGGGGCCACAGACTGCAAGTTCCTTGGCCGGCAGAGCACCTGACATTCACCCAGCAGCCAGGGC  
 CCGGTGGCTGGCCCTCGAGTTCGTGCGCCAGGACTCCTGGACTCCCTCTATGGACCGTGCCCGCTTC  
 CTCTCGGTGGTGCAGCTCAATCCTTTCCCTTCCAGAGTTGGTAAAGGCCCTACTGAATGAGCTGGCCTCCG  
 TGAAGGTGAATGAGGTGGTGGGTACGAGGCGGGCTACGTGGTATGCGCTGTGATCGCGGGCCTCTACCT  
 GCTGCTGGTGCCACTGCCGGGCTTTGCTTCTGCTGCTGCCGCTGCCACCGGCGTGCGGGGGACGAGTG  
 AAGACAGAGCACAAAGGCGCTGGCCTGTGAGCGCGGCCCTCATGGTCTTCTGCTGCTGACCACCTCT  
 TGCTGCTGATTGGTGTGGTCTGTGCCTTTGTACCAACCAGCGCACGCATGAACAGATGGCCCCAGCAT  
 CGAGGCCATGCCAGACCTGCTCAGCCTCTGGGGCCTGGTCTCTGATGTCCCAAGAGCTGCAGGCC  
 GTGGCACAGCAATTCTCCCTGCCAGGAGCAAGTCTCAGAGGAGCTGGATGGTGTGGTGTGAGCATTG  
 GGAGCGGATCCACACTCAGCTCAGGAGCTCCGTGTACCCCTTGCTGGCGGCCGTGGGCAGTTTGGGCCA  
 GGTCTGCAGGTCTCCGTGCACCACCTGCAAACTTGAATGCTACAGTGGTAGAGCTGCAGGCCGGGCGAG  
 CAGGACCTGGAGCCAGCCATCCGGGAACACCGGGACCGCTCCTTGAGCTGCTGCAGGAGGCCAGGTGCC  
 AGGGAGATTGTGCAGGGGCCCTGAGCTGGGCCCCGACCCCTGGAGCTGGGTGCTGACTTACGCCAGGTGCC  
 CTCTGTGGACCATGTCTGCACCAGCTAAAAGGTGTCCCCGAGGCCAACTTCTCCAGCATGGTCCAGGAG  
 GAGAACAGCACCTTCAACGCCCTTCCAGCCTGGCTGCCATGCAGACATCCAGCGTGGTGAAGAGCTGA  
 AGAAGGCAGTGGCCAGCAGCCGGAAGGGGTGAGGACACTGGCTGAAGGGTTCCCGGGCTGGAGGCAGC  
 TTCCCGCTGGGCCAGGCACTGCAGGAGGTGGAGGAGAGCAGCCGCCCTACCTGCAGGAGGTGCAGAGA  
 TACGAGACCTACAGGTGGATCGTGGGCTGCGTGTGTGCTCCGTGGTCTATTCTGGTGTCTGCAACC  
 TGCTGGGCCTCAATCTGGGCATCTGGGCCTGTCTGCCAGGGACGACCCAGCCACCCAGAAGCCAAGGG  
 CGAGGCTGGAGCCCGCTTCTCATGGCAGGTGTGGGCCTCAGCTTCTCTTTGCTGCACCCCTCATCCTC  
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 AGCTCTTTGAGTTTGCAGACACCCAGGAACTGCCCCCGTCCATGAACCTGTCGCAACTTCTTGGCCT  
 GAGGAAGAACATCAGCATCCACCAAGCCTATCAGCAGTGAAGGAAGGGGACGCGCTCTGGACAGTCTG  
 CAGCTCAACGACTCCTACGACTGGAGGAGCACCTGGATATCAACCAGTATACCAACAAGCTACGGCAGG  
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 GGCCCTGCAGAGCAGTGGGCTTACGCGCATCCACTACCCCGACTTCTCGTTTCCAGATCCAGAGGCCCGTG  
 GTGAAGACCAGCATGGAGCAGCTGGCCCAGGAGCTGCAAGGACTGGCCCAGGCCAAGACAATTCTGTGC  
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 GAGCCTTGTGGCAAAGCTCAACCTCAGCGTCAGGGCCCTGGAGTCTCTGCCCGAATCTCCAGCTGGAG  
 ACCTCAGATGTCTAGCCAATGTACCTACCTGAAAGGAGAGTGCCTGCCTGGCAGCCAGGATCCTGA  
 GGAATGTGAGTGAAGTGTCTTCTGGCCGGGAGATGGGCTACTTCTCCAGTACGTGGCCTGGGTGAGAGA  
 GGAGGTGACTCAGCGCATTGCCACCTGCCAGCCCTCTCCGGAGCCCTGGACAACAGCCGTGTGATCCTG  
 TGTGACATGATGGCTGACCCCTGGAATGCCTTCTGGTTCTGCCTGGCATGGTGCACCTTCTTCTGATCC  
 CCAGCATCATCTTTGCCGTCAAGACCTCCAATACTTCCGTCTATCCGAAACGCTCAGCTCCACCAG  
 CTCTGAGGAGACTCAGCTTCCACATCCCCGGGTTACCTCCCTGAAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC229025 protein sequence  
Red=Cloning site Green=Tags(s)

MKHTLALLAPLLGLGLLALSQLAAGATDCKFLGPAEHLTFTPAARARWLAPRVRAPGLLDSLYGTVRRF  
LSVVQLNPFPELVKALLNELASVKVNEVVRYEAGYVVCVAVIAGLYLLL VPTAGLCFCCCRCHRRCGGRV  
KTEHKALACERAALMVFLLLTLLLLLIGVVCAFVTNQRTHEQMGPSEIAMPETLLSLWGLVSDVPQELQA  
VAQQFSLPQEQVSEELDGVGVSIGSAIHTQLRSSVYPLLAAVGSLGQVLQVSVHHLQTLNATVVVELQAGQ  
QDLEPAIREHRDRLELLQEARCQGDGALSWARTLELGADFSQVPSVDHVLHQLKGVPEANFSSMVQE  
ENSTFNALPALAAMQTSSVVQELKKAQAQPEGVRTLAEGFPGLEAASRWAQALQEVEESSRPYLQEVQR  
YETRWIVGCVLCSVFLFVVLGNLLGLNLGIWGLSARDDPSHPEAKGEAGARFLMAGVGLSFLFAAPLIL  
LVFATFLVGGNVQTLVCRSWENGELFEFADTPGNLPPSMNLSQLLGLRKNISIHQAYQQCKEGAALWTVL  
QLNDSYDLEEHLINQYTNKLRQELQSLKVDTSQSLDSSAARRDLEALQSSGLQRIHYPDFLVQIQRPV  
VKTSMEQLAQELQGLAQADNSVLGQRLQEEAQLRNLHQEKVVPQQLVAKLNL SVRALESSAPNLQLE  
TSDVLANVTYKLGELPAWAARILRNVSECFAREMGYFSQYVAWVREEVTQRIATCQPLSGALDNSRVIL  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

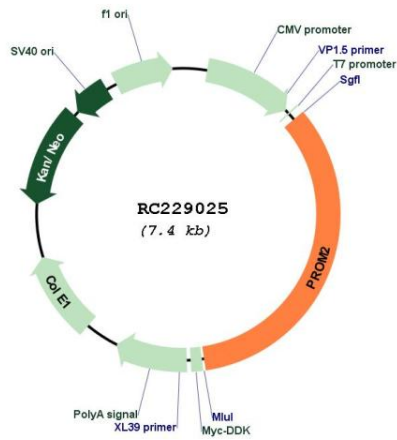
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6163\\_c08.zip](https://cdn.origene.com/chromatograms/mk6163_c08.zip)

**Restriction Sites:** Sgfl-MluI

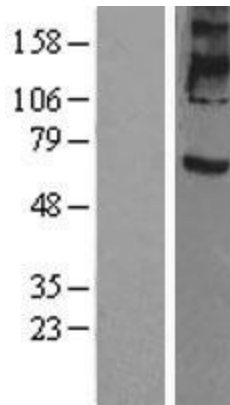


<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, 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_001165978.3</a></u>
<b>RefSeq Size:</b>	4739 bp
<b>RefSeq ORF:</b>	2505 bp
<b>Locus ID:</b>	150696
<b>UniProt ID:</b>	<u><a href="#">Q8N271</a></u>
<b>Cytogenetics:</b>	2q11.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	91.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC229025



Western blot validation of overexpression lysate (Cat# [LY432053]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC229026] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).