

Product datasheet for **RC229026**

Prominin 2 (PROM2) (NM_001165977) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prominin 2 (PROM2) (NM_001165977) 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:**

>RC229026 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCACACACTGGCTCTGCTGGCTCCCTGCTGGCCTGGCCTGGGCTGGCCTGAGTCAGCTGG
 CTGCAGGGGCCACAGACTGCAAGTTCCTTGGCCGGCAGAGCACCTGACATTCACCCAGCAGCCAGGGC
 CCGGTGGCTGGCCCTCGAGTTCGTGCGCCAGGACTCCTGGACTCCCTCTATGGACCGTGCCCGCTTC
 CTCTCGGTGGTGCAGCTCAATCCTTTCCCTTCAGAGTTGGTAAAGGCCCTACTGAATGAGCTGGCCTCCG
 TGAAGGTGAATGAGGTGGTGGGTACGAGGCGGGCTACGTGGTATGCGCTGTGATCGCGGCCCTACCT
 GCTGCTGGTGCCACTGCCGGGCTTTGCTTCTGCTGCTGCCGCTGCCACCGCGCTGCGGGGACGAGTG
 AAGACAGAGCACAAAGGCGCTGGCCTGTGAGCGCGGCCCTCATGGTCTTCTGCTGCTGACCACCTCT
 TGCTGCTGATTGGTGTGGTCTGTGCCTTTGTACCAACCAGCGCACGCATGAACAGATGGCCCCAGCAT
 CGAGGCCATGCCTGAGACCTGCTCAGCCTCTGGGGCCTGGTCTCTGATGTCCCAAGAGCTGCAGGCC
 GTGGCACAGCAATTCTCCCTGCCAGGAGCAAGTCTCAGAGGAGCTGGATGGTGTGGTGTGAGCATTG
 GGAGCGGATCCACACTCAGCTCAGGAGCTCCGTGTACCCCTTGCTGGCGGCCGTGGGCAGTTTGGGCCA
 GGTCTGCAGGTCTCCGTGCACCACCTGCAAACTTGAATGCTACAGTGGTAGAGCTGCAGGCCGGGCGAG
 CAGGACCTGGAGCCAGCCATCCGGGAACACCGGGACCGCTCCTTGAGCTGCTGCAGGAGGCCAGGTGCC
 AGGGAGATTGTGCAGGGGCCCTGAGCTGGGCCCCACCCCTGGAGCTGGGTGCTGACTTACGCCAGGTGCC
 CTCTGTGGACCATGTCTGCACCAGCTAAAAGGTGTCCCCGAGGCCAACTTCTCCAGCATGGTCCAGGAG
 GAGAACAGCACCTTCAACGCCCTTCCAGCCCTGGCTGCCATGCAGACATCCAGCGTGGTGAAGAGCTGA
 AGAAGGCAGTGGCCAGCAGCCGGAAGGGGTGAGGACACTGGCTGAAGGGTTCCCGGGCTGGAGGCAGC
 TTCCCGCTGGGCCAGGCACTGCAGGAGGTGGAGGAGAGCAGCCGCCCTACCTGCAGGAGGTGCAGAGA
 TACGAGACCTACAGGTGGATCGTGGGCTGCGTGTGTGCTCCGTGGTCTATTCTGGTGTCTGCAACC
 TGCTGGGCCTCAATCTGGGCATCTGGGCCTGTCTGCCAGGGACGACCCAGCCACCCAGAAGCCAAGGG
 CGAGGCTGGAGCCCGCTTCTCATGGCAGGTGTGGGCCTCAGTTCTCTTTGCTGCACCCTCATCCTC
 CTGGTGTTCGCCACCTTCTGGTGGTGGCAACGTGCAGACGCTGGTGTGCCGGAGCTGGGAGAACGGCG
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 AGTTGCAGAGCCTGAAAGTAGACACACAGAGCCTGGACCTGCTGAGCTCAGCCGCCCGCCGGACCTGGA
 GGCCCTGCAGAGCAGTGGGCTTACGCGCATCCACTACCCGACTTCTCGTTTCCAGATCCAGAGGCCCGTG
 GTGAAGACCAGCATGGAGCAGCTGGCCAGGAGCTGCAAGGACTGGCCAGGCCAAGACAATTCTGTGC
 TGGGGCAGCGGCTGCAGGAGGAGGCCAAGGACTCAGAACTTACCAGGAGAAGGTGTCCTCCCGCAGCA
 GAGCCTTGTGGCAAAGCTCAACCTCAGCGTCAGGGCCCTGGAGTCTCTGCCCGAATCTCCAGCTGGAG
 ACCTCAGATGTCCTAGCCAATGTACCTACCTGAAAGGAGAGCTGCCTGCCTGGCAGCCAGGATCCTGA
 GGAATGTGAGTGAAGTGTCTTCTGGCCGGGAGATGGGCTACTTCTCCAGTACGTGGCCTGGGTGAGAGA
 GGAGGTGACTCAGCGCATTGCCACCTGCCAGCCCTCTCCGGAGCCCTGGACAACAGCCGTGTGATCCTG
 TGTGACATGATGGCTGACCCCTGGAATGCCTTCTGGTTCTGCCTGGCATGGTGCACCTTCTTCTGATCC
 CCAGCATCATCTTTGCCGTCAAGACCTCCAATACTTCCGTCTATCCGAAACGCCCTCAGCTCCACCAG
 CTCTGAGGAGACTCAGCTTCCACATCCCGGGTTACCTCCCTGAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229026 protein sequence
Red=Cloning site Green=Tags(s)

MKHTLALLAPLLGLGLLALSQLAAGATDCKFLGPAEHLTFTPAARARWLAPRVRAPGLLDSLYGTVRRF
LSVVQLNPFPELVKALLNELASVKVNEVVRYEAGYVVCVAVIAGLYLLL VPTAGLCFCCCRCHRRCGGRV
KTEHKALACERAALMVFLLLTLLLLLIGVVCAFVTNQRTHEQMGPSEIAMPETLLSLWGLVSDVPQELQA
VAQQFSLPQEQVSEELDGVGVSIGSAIHTQLRSSVYPLLAAVGSLGQVLQVSVHHLQTLNATVVELQAGQ
QDLEPAIREHRDRLELLQEARCQGDGALSWARTLELGADFSQVPSVDHVLHQLKGVPEANFSSMVQE
ENSTFNALPALAAMQTSSVVQELKKAQAQPEGVRTLAEGFPGLEAASRWAQALQEVEESSRPYLQEVQR
YETRWIVGCVLCSVFLFVVLGNLLGLNLGIWGLSARDDPSHPEAKGEAGARFLMAGVGLSFLFAAPLIL
LVFATFLVGGNVQTLVCRSWENGELFEFADTPGNLPPSMNLSQLLGLRKNISIHQAYQQCKEGAALWTVL
QLNDSYDLEEHLINQYTNKLRQELQSLKVDTSQSLDSSAARRDLEALQSSGLQRIHYPDFLVQIQRPV
VKTSMEQLAQELQGLAQADNSVLGQRLQEEAQLRNLHQEKVVPQQLVAKLNL SVRALESSAPNLQLE
TSDVLANVTYKLGELPAWAARILRNVSECFAREMGYFSQYVAWVREEVTQRIATCQPLSGALDNSRVIL
CDMMADPWNAFWFLAWCTFFLIPSIIFAVKTSKYFRPIRKRLSSTSSEETQLFHIPRVTSCLK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6163_c08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001165977

ORF Size: 2502 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_001165977.3](#)

RefSeq Size: 2930 bp

RefSeq ORF: 2505 bp

Locus ID: 150696

UniProt ID: [Q8N271](#)

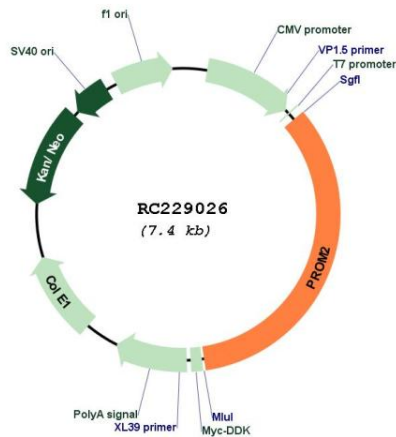
Cytogenetics: 2q11.1

Protein Families: Transmembrane

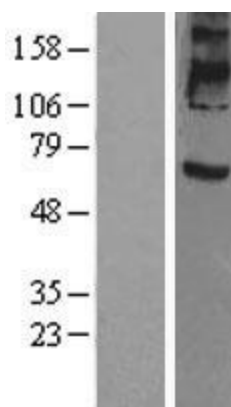
MW: 91.9 kDa

Gene Summary: 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 RC229026



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]).