

Product datasheet for **RG211605**

Prominin 2 (PROM2) (NM_144707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prominin 2 (PROM2) (NM_144707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prominin 2
Synonyms:	PROML2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211605 representing NM_144707
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCACACACTGGCTCTGCTGGCTCCCTGCTGGCCTGGCCTGGGCTGGCCTGAGTCAGCTGG
 CTGCAGGGGCCACAGACTGCAAGTTCCTTGGCCGGCAGAGCACCTGACATTCACCCAGCAGCCAGGGC
 CCGGTGGCTGGCCCTCGAGTTCGTGCGCCAGGACTCCTGGACTCCCTCTATGGACCGTGCCCGCTTC
 CTCTCGGTGGTGCAGCTCAATCCTTTCCCTTACAGATTGGTAAAGGCCCTACTGAATGAGCTGGCCTCCG
 TGAAGGTGAATGAGGTGGTGCAGTACGAGGCGGGCTACGTGGTATGCGCTGTGATCGCGGCCCTACCT
 GCTGCTGGTGCCACTGCCGGCTTTGCTTCTGCTGCTGCCGCTGCCACCGCGCTGCCGGGGACGAGTG
 AAGACAGAGCACAAAGGCGCTGGCCTGTGAGCGCGGCCCTCATGGTCTTCTGCTGCTGACCACCTCT
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 GAGAACAGCACCTTCAACGCCCTTCCAGCCTGGCTGCCATGCAGACATCCAGCGTGGTGAAGAGCTGA
 AGAAGGCAGTGGCCAGCAGCGGGAAGGGGTGAGGACACTGGCTGAAGGGTTCCCGGGCTGGAGGCAGC
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 GGAATGTGAGTGAAGTGTCTTCTGGCCGGGAGATGGGCTACTTCTCCAGTACGTGGCCTGGGTGAGAGA
 GGAGGTGACTCAGCGCATTGCCACCTGCCAGCCCTCTCCGGAGCCCTGGACAACAGCCGTGTGATCCTG
 TGTGACATGATGGCTGACCCCTGGAATGCCTTCTGGTTCTGCCTGGCATGGTGCACCTTCTTCTGATCC
 CCAGCATCATCTTTGCCGTCAAGACCTCCAATACTTCCGTCTATCCGAAACGCCTCAGCTCCACCAG
 CTCTGAGGAGACTCAGCTTCCACATCCCGGGTTACCTCCCTGAAGCTG

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211605 representing NM_144707
 Red=Cloning site Green=Tags(s)

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MKHTLALLAPLLGLGLLALSQLAAGATDCKFLGPAEHLTFTPAARARWLAPRVRAPGLLDSLYGTVRRF
LSVVQLNPFPESELVKALLNELASVKVNEVVRYEAGYVVCVAVIAGLYLLL VPTAGLCFCCCRCHRRCGGRV
KTEHKALACERAALMVFLLLTLLLLLIGVVCAFVTNQRTHEQMGPSEIAMPETLLSLWGLVSDVPQELQA
VAQQFSLPQEQVSEELDGVGVSIGSAIHTQLRSSVYPLLAAVGSLGQVLQVSVHHLQTLNATVVVELQAGQ
QDLEPAIREHRDRLELLELQEARCQGDGALSWARTLELGADFSQVPSVDHVLHQLKGVPEANFSSMVQE
ENSTFNALPALAAMQTSSVVQELKKAQAQPEGVRTLAEGFPGLEAASRWAQALQEVEESSRPYLQEVQR
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QLNDSYDLEEHLDINQYTNKLRQELQSLKVDTSQSLDSSAARRDLEALQSSGLQRIHYPDFLVQIQRPV
VKTSMEQLAQELQGLAQADNSVLGQRLQEEAQLRNLHQEKVVPQQSLVAKLNL SVRALESSAPNLQLE
TSDVLANVTYKLGELPAWAARILRNVSECFLAAREMGYFSQYVAWVREEVTQRIATCQPLSGALDNSRVIL
CDMMADPWNAFWFLAWCTFFLIPSIIFAVKTSKYFRPIRKRLSSTSSEETQLFHIPRVTSCLK
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_144707

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_144707.1](#), [NP_653308.1](#)

RefSeq Size: 3822 bp

RefSeq ORF: 2505 bp

Locus ID: 150696

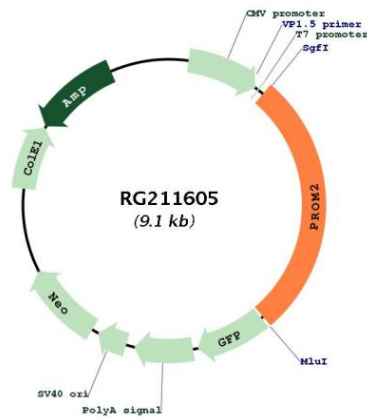
UniProt ID: [Q8N271](#)

Cytogenetics: 2q11.1

Protein Families: Transmembrane

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 RG211605