

Product datasheet for **RG234332**

PEX5 related protein (PEX5L) (NM_001256755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 related protein (PEX5L) (NM_001256755) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEX5 related protein
Synonyms:	PEX5R; PEX5RP; PXR2; PXR2B; TRIP8b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234332 representing NM_001256755
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATGAAGGAGATACCGAGGGAGGAGTCTGCTGAAGAAAAGCCCTCCTTACTATGACATCACAGC
 TGGTGAATGAGCAACAAGAAAGCAGACCCCTCCTGAGTCCCTCCATCGATGACTTTCTCTGTGAAACCAA
 ATCGGAAGCAATAGCAAGGCCAGTAACATCCAATACAGCTGACATTCAAACACAACCTGGAAAAATGGGAC
 GATGTTAAGTTTCATGGAGATCGAAATACCAAGGGACATCCAATGGCAGAGAGAAAATCATCCTCATCTA
 GAACTGGATCAAAGAGCTCTTATGGTCTCAGAACACAGATCTCAACCAGAAGTGGTGGAAAAAG
 CGCCCTCAACTCTGAGTCGGCTTCAGAATTGGAATTAGTGGCTCCGACTCAGGCTCGACTGACCAAAGAA
 CATCGTGGGGAAGCGCATTACTTTCTAGAAACCACTCCTTAGAAGAAGAGTTTGAAGGGCAAAGCAG
 CAGTGGAGTCAGATACAGAGTTTTGGGATAAGATGCAAGCAGAATGGGAAGAAAATGGCTCGGAGGAACTG
 GATATCTGAGAACCAAGAAGCCAGAACCAAGTAACCATCTCGGCTAGTGAGAAGGGATATTACTTTTAC
 ACTGAAAACCCCTTCAAGGACTGGCCTGGAGCATTGAAGAAGGCTTAAAAGGCTGAAGGAAGGGGATC
 TGCCAGTACCATCCTGTTCATGGAAGCAGCAATTCTTACGACCTGGAGATGCAGAGGATGGCAGTT
 CCTCGGGATAACCCAGGCGGAGAATGAAAATGAACAAGCAGCTATTGTGCCCTCCAGAGGTGCTTAGAA
 TTACAGCCCAACAACCTTAAAAGCTTTGATGGCCTTGGCTGTGAGTTATACTAACACTGGCCATCAGCAGG
 ATGCCTGTGACGCTCTGAAGAATTGGATTAAGCAAAATCCAAAGTACAAATACCTTGTGAAAAGCAAAGAA
 GGGATCTCCAGGCTCACCCGGCGGATGTCTAAGTCCCAAGTTGATAGCTCTGTTCTGGAAGGGGTGAAG
 GAATTATATCTGGAAGCTGCCACCAAAATGGAGATATGATCGACCCAGACCTGCAGACAGTCTAGGGG
 TTCTGTTCCACCTGAGTGGAGAATTTAATAGACCAATAGATGCATTTAACGCTGCCTTAACTGTTCCGGC
 AGAGGACTATTCACTATGGAACCGCTCGGGCGACCTTGGCGAACGGAGACCGCAGCGAGGAAGCCGTG
 GAGGCCTATACGCGAGCACTGGAGATTCAGCCAGGATTATCCGGTCCAGATACAACCTAGGAATAAGCT
 GCATCAACCTGGGCGCTACAGAGAAGCGGTGAGCAATTTTCTACTGCCCTCAGTTTGCAAAGAAAGAG
 CAGGAATCAGCAGCAAGTTCTCATCCTGCAATCTCTGGGAATATCTGGGCTGCCCTCAGAAATGCGCTC
 TCTCTGATGGACCAACCAGAACTCTCCAGGCGGCTAATCTTGGTGACCTGGATGTCTCTTAAGAGCTT
 TCAACTTGGATCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234332 representing NM_001256755
 Red=Cloning site Green=Tags(s)

MVMKEIPREESAEEKPLLTMTSQLVNEQQESRPLLSPSIDDFLCETKSEIARPVTSNTADIQTQLEKWD
 DVKFGDRNTKGHMPAERKSSSSRTGSKELLWSSEHRSQPELSGGKSALNSESALELVAPTQARLTKE
 HRWGSALLSRNHSLEEEFERAKAAVESDTEFWDKMQAEWEEMARRNWISENQEAQNQVTISASEKGYFFH
 TENPFKDWPGAFEEGLKRLKEGDLPVTILFMEAAILQDPGDAEAWQFLGITQAENENEQAAIVALQRCL
 LQPNNLKALMALAVSYTNTGHQQDACDALKNWIKQNPYKYLKSKKGSPLTRRMSKSPVDSSVLEGVK
 ELYLEAAHQNGDMIDPDLQTGLVFLHLSGFNRAIDAFNAALTVRPEDYSLWNRLGATLANGDRSEEAV
 EAYTRALEIQPGFIRSRYNLGISINLGAYREAVSNFLTALSLQRKSRNQVPHPAISGNIWAALRIAL
 SLMDQPELFQAANLGDLDVLLRAFNLDP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001256755

ORF Size: 1554 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_001256755.2](#)

RefSeq Size: 8740 bp

RefSeq ORF: 1557 bp

Locus ID: 51555

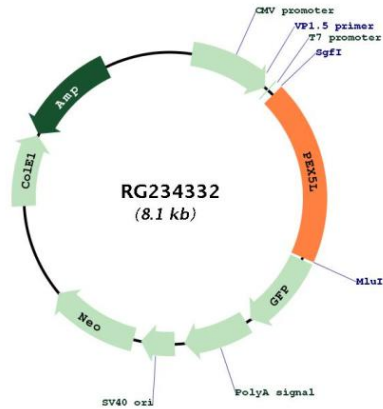
UniProt ID: [Q8IYB4](#)

Cytogenetics: 3q26.33

Protein Families: Druggable Genome

Gene Summary: Accessory subunit of hyperpolarization-activated cyclic nucleotide-gated (HCN) channels, regulating their cell-surface expression and cyclic nucleotide dependence.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234332