

## Product datasheet for **RG234534**

### PEX5 related protein (PEX5L) (NM\_001256751) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 related protein (PEX5L) (NM_001256751) 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:**

>RG234534 representing NM\_001256751  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTACCAGGGACACATGCAGGGAAAAGGCTCTAGGGCGGCAGATAAGGCTGTTGCCATGGTGTGAAAGG  
 AGATACCGAGGGAGGAGTCTGCTGAAGAAAAGCCCTCCTTACTATGACATCACAGCTGGTGAATGAGCA  
 ACAAGAAAAGCAGACCCCTCTGAGTCCCTCCATCGATGACTTTCTCTGTGAAACCAAATCGGAAGCAATA  
 GCAAGGCCAGTAACATCCAATACAGCTGTATTGACCACTGGCTTAGATCTCCTCGACCTGAGTGAACCGAG  
 TCTCTCAAACCCAAACCAAGCCAAAGAAGTCAAGAGCCCTCATCAAAAACCTCATCCCTCAAGAAAAAGGC  
 CGATGGATCTGACCTCATCAGCACGGATGCTGAGCAGAGAGGCCAGCCTCTCAGAGTCCCGGAGACTTCA  
 TCCTTAGATCTAGACATTCAAACACAACGAAAAATGGGACGATGTTAAGTTTCATGGAGATCGAAATA  
 CCAAGGGACATCCAATGGCAGAGAGAAAATCATCCTCATCTAGAAGTGGATCAAAAGAGCTTTATGGTC  
 CTCAGAACACAGATCTCAACCAGAACTGAGTGGTGGAAAAAGCGCCCTCAACTCTGAGTCGGCTTCAGAA  
 TTGGAATTAGTGGCTCCGACTCAGGCTCGACTGACCAAAGAACATCGCTGGGGAAGCGCATTACTTTCTA  
 GAAACCACTCCTTAGAAGAAGAGTTTGAAGGGCAAAAAGCAGCAGTGGAGTCAGATACAGAGTTTGGGA  
 TAAGATGCAAGCAGAATGGGAAGAAATGGCTCGGAGGAACTGGATATCTGAGAACCAAGAAGCCAGAAC  
 CAAGTAACCATCTCGGCTAGTGAGAAGGGATATTACTTTCACACTGAAAACCCCTTCAAGGACTGGCCTG  
 GAGCATTTGAAGAAGGCTTAAAAAGGCTGAAGGAAGGGGATCTGCCAGTCAACCTCTGTTTATGGAAGC  
 AGCAATTTTCAGGACCTGGAGATGCAGAGGCATGGCAGTTCCTCGGGATAACCCAGGCGGAGAATGAA  
 AATGAACAAGCAGCTATTGTCCCTCCAGAGGTGCTTAGAATTACAGCCCAACAACCTTAAAGCTTTGAT  
 TGGCCTTGGCTGTGAGTTATACTAACACTGGCCATCAGCAGGATGCCTGTGACGCTCTGAAGAATTGGAT  
 TAAGCAAAATCCAAAGTACAAATACCTTGTGAAAAGCAAGAAGGATCTCCAGGCCTCACCCGGCGGATG  
 TCTAAGTCCCGAGTTGATAGCTCTGTTCTGGAAGGGTGAAGGAATTATCTGGAAGCTGCCACCAAAA  
 ATGGAGATATGATCGACCCAGACCTGCAGACAGGTCTAGGGGTTCTGTTCCACCTGAGTGGAGAATTTAA  
 TAGAGCAATAGATGCATTTAACGCTGCCTAACTGTTCCGCCAGAGGACTATCACTATGGAACCGCCTC  
 GGGGCGACCTTGGCGAACGGAGACCGCAGCGAGGAAGCCGTGGAGGCTATACGCGAGCACTGGAGATTC  
 AGCCAGGATTCATCCGGTCCAGATACAACCTAGGAATAAGCTGCATCAACCTGGGCGCTACAGAGAAGC  
 GGTGAGCAATTTCTCACTGCCCTCAGTTTCAAAGAAAGAGCAGGAATCAGCAGCAAGTCTCTCATCCT  
 GCAATCTCTGGGAATATCTGGGCTGCCCTCAGAATTGCGCTCTCTGATGGACCAACCAGAACTCTTCC  
 AGGCGGCTAATCTTGGTACCTGGATGTCTCTTAAGAGCTTTCAACTTGGATCCT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234534 representing NM\_001256751  
 Red=Cloning site Green=Tags(s)

MYQGHMQGKGSRAADKAVAMVMKEIPREESAEKPLLMTMSQLVNEQQESRPLLSPSIDDFLCETKSEAI  
 ARPVTSNTAVLTTGLDLLDLSEPVSTQTKAKKSEPSSKTSLLKKKADGSDLISTDAEQRGQPLRVPETS  
 SLDLDIQTQLEKWDVDFHGDNRNKGHPMAERKSSSRTGSKELLWSSEHRSQPEL SGGKSALNSESASE  
 LELVAPTQARLTKEHRWGSALLSRNHSLEEEFERAKAAVESDTEFWDKMQAEWEEMARRNWI SENQEAQN  
 QVTISASEKGYFFHTENPFKDWPGAFEEGLKRLKEGDL PVTILFMEAILQDPGD AEAWQFLGITQAENE  
 NEQAAI VALQRCELELQPNNLKALMALAVSYTNTGHQQDACDALKNWIKQNPKYKYL VKSKKSPGLTRRM  
 SKSPVDSSVLEGVKELYLEAAHQNGDMIDPDLQTGLGVL FHLSGEFNRAIDAFNAALTVRPEDYSLWNR  
 L GATLANGDRSEEA VEAYTRALEIQPGFIRSRYNLGISINL GAYREAVSNFLTALSLQRKSRNQVPH  
 P A I TSGNIWAALRIALSLMDQPEL FQAANLGDLDVLLRAFNLDP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001256751

ORF Size: 1806 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\\_001256751.2](#)

RefSeq Size: 9133 bp

RefSeq ORF: 1809 bp

Locus ID: 51555

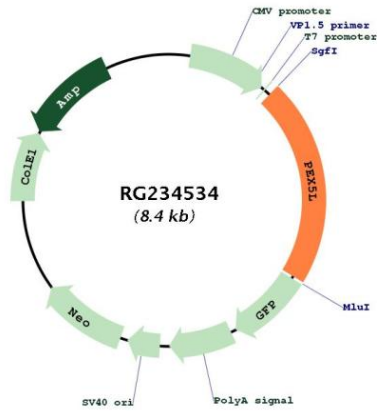
UniProt ID: [Q8IYB4](#)

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 RG234534