

## Product datasheet for **RG234491**

### PEX5 related protein (PEX5L) (NM\_001256754) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 related protein (PEX5L) (NM_001256754) 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:**

>RG234491 representing NM\_001256754  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGATGAAGGAGATACCGAGGGAGGAGTCTGCTGAAGAAAAGCCCTCCTTACTATGACATCACAGC  
 TGGTGAATGAGCAACAAGAAAGCAGACCCCTCCTGAGTCCCTCCATCGATGACTTCTCTGTGAAACCAA  
 ATCGGAAGCAATAGCAAGGCCAGTAACATCCAATACAGCTGTATTGACCACTGGCTTAGATCTCCTCGAC  
 CTGAGTGAACCACTCTCAAACCCAAACCAAAGCCAAGAAGTCAGAGCCCTCATCAAAAACCTCATCCC  
 TCAAGAAAAGGCCGATGGATCTGACCTCATCAGCAGGATGCTGAGCAGAGAGGCCAGCCTCTCAGAGT  
 CCCGGAGACTTCACTTAGATCTAGACATTCAAACACAAGTGGAAAAATGGGACGATGTTAAGTTTCAT  
 GGAGATCGAAATACCAAGGGACATCCAATGGCAGAGAGAAAATCATCCTCATCTAGAAGTGGATCAAAAAG  
 AGCTCTTATGGTCTCAGAACACAGATCTCAACCAGAAGTGGTGGAAAAAGCGCCCTCAACTCTGA  
 GTCGGCTTCAGAATTGGAATTAGTGGCTCCGACTCAGGCTCGACTGACCAAGAAGTTCGCTGGGGAAGC  
 GCATTACTTTCTAGAAACCACTCCTTAGAAGAAGAGTTTGAAGGGCAAAAGCAGCAGTGGAGTCAGATA  
 CAGAGTTTTGGGATAAGATGCAAGCAGAATGGGAAGAAAATGGCTCGGAGGAACTGGATATCTGAGAACCA  
 AGAAGCCCAGAACCAAGTAACCATCTCGGCTAGTGAGAAGGGATATTACTTTCACTGAAAACCCCTTC  
 AAGGACTGGCCTGGAGCATTGAAGAAGGCTTAAAAGGCTGAAGGAAGGGGATCTGCCAGTCACCATCC  
 TGTTTCATGGAAGCAGCAATTCTCAGGACCCTGGAGATGCAGAGGCATGGCAGTTCCTCGGGATAACCCA  
 GGCGGAGAATGAAAATGAACAAGCAGCTATTGTCGCCCTCCAGAGGTGCTTAGAATTACAGCCCAACAAC  
 TAAAAGCTTTGATGGCCTTGGCTGTGAGTTATACTAACACTGGCCATCAGCAGGATGCCTGTGACGCTC  
 TGAAGAATTGGATTAAGCAAAAATCAAAGTACAAAATACCTTGTGAAAAGCAAGAAGGGATCTCCAGCCT  
 CACCCGGCGGATGTCTAAGTCCCAAGTTGATAGCTCTGTTCTGGAAGGGTGAAGGAATTATATCTGGAA  
 GCTGCCACCAAAAATGGAGATATGATCGACCCAGACCTGCAGACAGGTCTAGGGTTCTGTTCCACCTGA  
 GTGGAGAATTTAATAGAGCAATAGATGCATTTAACGCTGCCTTAACTGTTGCGCCAGAGGACTATCACT  
 ATGGAACCGCCTCGGGCGACCTTGGCGAACGGAGACCGCAGCGAGGAAGCCGTGGAGGCCTATACGCGA  
 GCACTGGAGATTCAGCCAGGATTCATCCGGTCCAGATACAACCTAGGAATAGCTGCATCAACCTGGGCG  
 CCTACAGAGAAGCGGTCAGCAATTTCTACTGCCCTCAGTTTCAAAGAAAGAGCAGGAATCAGCAGCA  
 AGTTCCTCATCTGCAATCTCTGGGAATATCTGGGCTGCCCTCAGAATTGCGCTCTCTCTGATGGACCAA  
 CCAGAACTCTCCAGGCGCTAATCTTGGTGACCTGGATGTCCTTAAAGAGCTTCAACTTGGATCTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234491 representing NM\_001256754  
 Red=Cloning site Green=Tags(s)

MVMKEIPREESAEEKPLLMTSQLVNEQQESRPLLSPSIDDFLCETKSEIARPVTSNTAVLTTGLDLLD  
 LSEPVSQTQTKAKKSEPSKTSLLKKKADGSDLISTDAEQRGQPLRVPETSSLDLDIQTQLEKWDDVKFH  
 GDRNTKGHPMAERKSSSSRTGSKELLWSSEHRSQPELSSGKSALNSESASELELVAPTQARLTKEHRWGS  
 ALLSRNHSLEEEFERAKAAVESDTEFWDKMQAEWEEMARRNWISENQEAQNQVTISASEKGYFFHTENPF  
 KDWPGAFFEEGLKRLKEGDLPVTILFMEAAILQDPGDAEAWQFLGITQAENENEQAAIVALQRCLELQPNN  
 LKALMALAVSYTNTGHQQDACDALKNWIKQNPYKYLKSKKGSPLTRRMSKSPVDSVLEGVKELYE  
 AAHQNGDMIDPDLQTLGLVLFHLSGEFNRAIDAFNAALTVRPEDYSLWNRLGATLANGDRSEEAVEAYTR  
 ALEIQPGFIRSRYNLGISCNLGAAYREAVSNFLTALSLQRKSRNQVPHPAISGNIWAALRIALSLMDQ  
 PELFQAANLGDLDVLLRAFNLDP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001256754

ORF Size: 1749 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\\_001256754.2](#)

RefSeq Size: 8935 bp

RefSeq ORF: 1752 bp

Locus ID: 51555

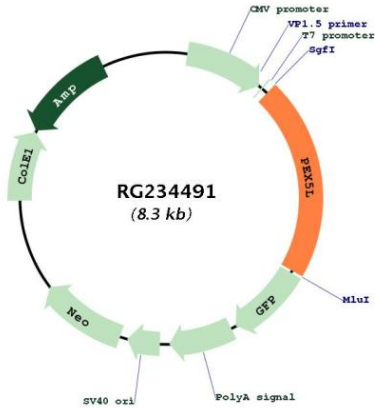
UniProt ID: [Q8IYB4](#)

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 RG234491