

## Product datasheet for **RG234087**

### PEX5 related protein (PEX5L) (NM\_001256756) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 related protein (PEX5L) (NM_001256756) 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)
ORF Nucleotide Sequence:	>RG234087 representing NM_001256756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGAGAAAATCATCCTCATCTAGAACTGGATCAAAGAGCTCTTATGGTCCTCAGAACACAGAT  
CTCAACCAGAAGTGAAGTGGTGGAAAAAGCGCCCTCAACTCTGAGTCGGCTTCAGAATTGGAATTAGTGGC  
TCCGACTCAGGCTCGACTGACCAAAGAACATCGCTGGGAAGCGCATTACTTTCTAGAAACCACTCCTTA  
GAAGAAGAGTTTGAAGGGCAAAAGCAGCAGTGGAGTCAGATACAGAGTTTTGGGATAAGATGCAAGCAG  
AATGGGAAGAAATGGCTCGGAGGAAGTGGATATCTGAGAACCAAGAAGCCAGAACCAAGTAACCATCTC  
GGCTAGTGAGAAGGATATTACTTTCACTGAAAACCCCTTCAAGGACTGGCCTGGAGCATTGGAAGAA  
GGCTTAAAAAGGCTGAAGGAAGGGGATCTGCCAGTCACCATCCTGTTCATGGAAGCAGCAATTTCTCAGG  
ACCCTGGAGATGCAGAGGCATGGCAGTTCTCGGGATAACCCAGGCGGAGAATGAAAATGAACAAGCAGC  
TATTGTGCGCCCTCCAGAGGTGCTTAGAATTACAGCCCAACAATTAAGCTTTGATGGCCTTGGCTGTG  
AGTTATACTAACACTGGCCATCAGCAGGATGCCTGTGACGCTCTGAAGAATTGGATTAAGCAAAATCCAA  
AGTACAAATACCTTGTGAAAAGCAAGAAGGATCTCCAGGCCTCACCCGGCGGATGTCTAAGTCCCCAGT  
TGATAGCTCTGTTCTGGAAGGGTGAAGGAATTATCTGGAAGCTGCCACCAAAATGGAGATATGATC  
GACCCAGACCTGCAGACAGGCTAGGGTTCTGTTCCACCTGAGTGGAGAATTAATAGCAATAGATG  
CATTAAACGCTGCCTAACTGTTTCGGCCAGAGGACTATTCACTATGGAACCGCCTCGGGGCGCCTTGGC  
GAACGGAGACCGCAGCGAGGAAGCCGTGGAGGCCTATACGCGAGCACTGGAGATTCAGCCAGGATTCATC  
CGGTCCAGATACAACCTAGGAATAAGCTGCATCAACCTGGGCGCTACAGAGAAGCGGTGAGCAATTTTC  
TCACTGCCCTCAGTTTGCAAAGAAAGAGCAGGAATCAGCAGCAAGTTCTCATCTGCAATCTCTGGGAA  
TATCTGGGCTGCCCTCAGAATTGCGCTCTCTGATGGACCAACCAGAAGTCTTCCAGGCGGCTAATCTT  
GGTGACCTGGATGTCCTTAAGAGCTTCAACTTGGATCCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG234087 representing NM\_001256756  
Red=Cloning site Green=Tags(s)

MAERKSSSRTGSKELLWSEHRSQPESGGKSALNSESASELELVAPTQARLTKEHRWGSALLSRNHSL  
 EEEFERAKAAVESDTEFWDKMQAEWEEMARRNWI SENQEAQNQVTI SASEKGYFFHTENPFKDWPGAFEE  
 GLKRLKEGDLPTILFMEAAILQDPGDAEAWQFLGITQAENENEQAAIVALQRCLLQPNLKMALAV  
 SYTNTGHQQDACDALKNWIKQNPKYKYL VKSKKGGSPGL TRRMSKSPVDSSVLEGVKELYLEAAHQNDMI  
 DPDLQTGLGVL FHL SGEFNRAIDAFNAAL TVRPEDYSLWNRLGATLANGDRSEEAVEAYTRALEIQPGFI  
 RSRYNLGI SCINLGAYREAVSNFLTALSLQRKSRNQQVPHPAISGNIWAALRIALSLMDQPELFAQANL  
 GDLDVLLRAFNLDP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256756

**ORF Size:** 1302 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\\_001256756.2](#)

**RefSeq Size:** 8830 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 51555

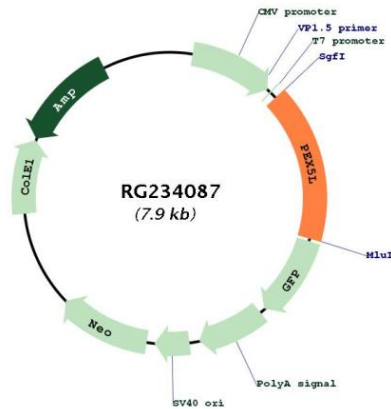
**UniProt ID:** [Q8IYB4](#)

**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 RG234087