

Product datasheet for **RG234453**

PEX5 related protein (PEX5L) (NM_001256753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 related protein (PEX5L) (NM_001256753) 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:

>RG234453 representing NM_001256753
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCAGGGACACATGCAGCTGGTGAATGAGCAACAAGAAAGCAGACCCCTCCTGAGTCCCTCCATCG
 ATGACTTTCTCTGTGAAACCAAATCGGAAGCAATAGCAAGGCCAGTAACATCCAATACAGCTGTATTGAC
 CACTGGCTTAGATCTCCTCGACCTGAGTGAACCACTCTCTCAAACCCAAACCAAAGCCAAGAAGTCAGAG
 CCCTCATCAAAAACCTCATCCCTCAAGAAAAAGGCCGATGGATCTGACCTCATCAGCAGGGATGCTGAGC
 AGAGAGGCCAGCCTCTCAGAGTCCCGGAGACTTCATCCTTAGATCTAGACATTCAAACACAACCTGGAAAA
 ATGGGACGATGTTAAGTTTCATGGAGATCGAAATACCAAGGGACATCCAATGGCAGAGAGAAAAATCATCC
 TCATCTAGAACTGGATCAAAAGAGCTTTATGGTCCTCAGAACACAGATCTCAACCAGAACTGAGTGGTG
 GAAAAAGCGCCCTCAACTCTGAGTCGGCTTCAGAAATGGAATTAGTGGCTCCGACTCAGGCTCGACTGAC
 CAAAGAACATCGCTGGGAAGCGCATTACTTTCTAGAAACCACTCCTTAGAAGAAGAGTTTGAAAGGGCA
 AAAGCAGCAGTGGAGTCAGATACAGAGTTTTGGGATAAGATGCAAGCAGAATGGGAAGAAATGGCTCGGA
 GAACTGGATATCTGAGAACCAAGAAGCCAGAACCAAGTAACCATCTCGGCTAGTGAGAAGGGATATTA
 CTTTCACACTGAAAACCCCTTCAAGGACTGGCCTGGAGCATTGGAAGAAGGCTTAAAAAGGCTGAAGGAA
 GGGGATCTGCCAGTACCATCCTGTTTATGGAAGCAGCAATTTCTCAGGACCCTGGAGATGCAGAGGCAT
 GGCAGTTCTCGGGATAACCCAGGCGGAGAATGAAAATGAACAAGCAGCTATTGTGCGCCCTCCAGAGGTG
 CTTAGAATTACAGCCCAACAACCTAAAAGCTTTGATGGCCTTGGCTGTGAGTTATACTAACACTGGCCAT
 CAGCAGGATGCCTGTGACGCTCTGAAGAATTGGATTAAGCAAAATCCAAGTACAATACTTTGTGAAAA
 GCAAGAAGGGATCTCCAGGCCTCACCCGGCGGATGTCTAAGTCCCAAGTTGATAGCTCTGTTCTGGAAGG
 GGTGAAGGAATTATATCTGGAAGCTGCCACCAAATGGAGATATGATCGACCCAGACCTGCAGACAGGT
 CTAGGGTTCTGTTCCACCTGAGTGGAGAATTTAATAGAGCAATAGATGCATTTAACGCTGCCTTAACTG
 TTCGGCCAGAGGACTATTCATATGGAACCGCCTCGGGGCGACCTTGGCGAACGGAGACCGCAGCGAGGA
 AGCCGTGGAGGCCTATACGCGAGCACTGGAGATTCAGCCAGGATTCATCCGGTCCAGATACAACCTAGGA
 ATAAGTGCATCAACCTGGGCGCCTACAGAGAAGCGGTCAGCAATTTCTCACTGCCCTCAGTTTGCAA
 GAAAGAGCAGGAATCAGCAGCAAGTTCTCATCTGCAATCTCTGGGAATATCTGGGCTGCCCTCAGAA
 TGCCTCTCTGATGGACCAACCAGAACTCTCCAGGCGCTAATCTTGGTGACCTGGATGTCCTCTTA
 AGAGCTTCAACTGGATCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234453 representing NM_001256753
 Red=Cloning site Green=Tags(s)

MYQGHMQLVNEQQESRPLLSIDDFLCETKSEAIARPVTSNTAVLTTGLDLDLSEPVSTQTKAKKSE
 PSSKTSLLKKKADGSDLI STDAEQRGQPLRVPETSSLDLDIQTQLEKWDVVKFHGDRNTKGHMPAERKSS
 SSRTGSKELLWSSEHRSQPELSGGKSALNSESASELELVAPTQARLTKEHRWGSALLSRNHSLEEEFERA
 KAAVESDTEFWDKMQAEWEEMARRNWISENQEAQNQVTISASEKGYFFHTENPFKDWPGAFEEGLKRLKE
 GDLPVTLFMEAAILQDPGDAEAWQFLGITQAENENEQAAIVALQRCLQLPNNLKALMALAVSYTNTGH
 QQDACDALKNWIKQNPKYKYLKSKKSGPGLTRRMSKSPVDSVLEGVKELYLEAAHQNGMIDPDLQTG
 LGVLFHLSGFENRAIDAFNAALTVRPEDYSLWNRLGATLANGDRSEEAVEAYTRALEIQPGFIRSRYNLG
 ISCINLGAYREAVSNFLTALSLQRKSRNQVPHPAISGNIWAALRIALSLMDQPELFAANLGDLDVLL
 RAFNLDP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001256753

ORF Size: 1701 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_001256753.2](#)

RefSeq Size: 9028 bp

RefSeq ORF: 1704 bp

Locus ID: 51555

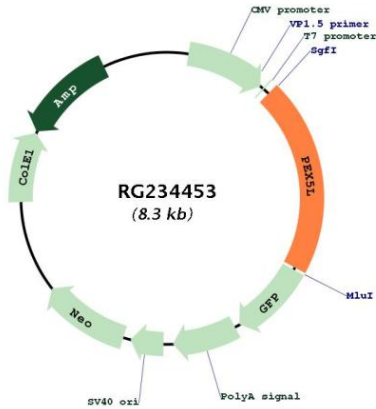
UniProt ID: [Q8IYB4](#)

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 RG234453