

Product datasheet for **RG234510**

PEX5 related protein (PEX5L) (NM_001256752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 related protein (PEX5L) (NM_001256752) 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:

>RG234510 representing NM_001256752
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACCAGGGACACATGCAGAAAAGTAAAGAACAAGGATATGGAAAACCTAAGCAGTGATGAAGACCTCG
 AAATAATTGTTGATCAAAAGCAGCTGGTGAATGAGCAACAAGAAAGCAGACCCCTCTGAGTCCCTCCAT
 CGATGACTTTCTGTGAAACCAATCGGAAGCAATAGCAAGGCCAGTAACATCCAATACAGCTGTATTG
 ACCACTGGCTTAGATCTCCTCGACCTGAGTGAACCACTCTCAAACCCAAACCAAGCCAAAGAAGTCAG
 AGCCCTCATCAAAAACCTCATCCCTCAAGAAAAAGGCCGATGGATCTGACCTCATCAGCAGCGATGCTGA
 GCAGAGAGGCCAGCCTCTCAGAGTCCCGGAGACTTCATCCTTAGATCTAGACATTCAAACACAACCTGGAA
 AAATGGGACGATGTTAAGTTTCATGGAGATCGAAATACCAAGGGACATCCAATGGCAGAGAGAAAATCAT
 CCTCATCTAGAAGTGGATCAAAAGAGCTTTATGGTCTCAGAACACAGATCTCAACCAGAACTGAGTGG
 TGGAAAAAGCGCCCTCAACTCTGAGTCGGCTTCAGAATTGGAATTAGTGGCTCCGACTCAGGCTCGACTG
 ACCAAAGAACATCGCTGGGAAGCGCATTACTTTCTAGAAACCACTCCTTAGAAGAAGAGTTTGAAAGGG
 CAAAAGCAGCAGTGGAGTCAGATACAGAGTTTTGGGATAAGATGCAAGCAGAATGGGAAGAAATGGCTCG
 GAGGAAGTGGATATCTGAGAACCAAGAAGCCAGAACCAAGTAACCATCTCGGCTAGTGAGAAGGGATAT
 TACTTTACACTGAAAACCCCTTCAAGGACTGGCTGGAGCATTTGAAGAAGGCTTAAAAAGGCTGAAGG
 AAGGGGATCTGCCAGTCAACATCCTGTTTCATGGAAGCAGCAATCTTTCAGGACCTGGAGATGCAGAGGC
 ATGGCAGTTCTCGGGATAACCCAGGCGGAGAATGAAAATGAACAAGCAGCTATTGTGCGCCCTCCAGAGG
 TGCTTAGAATTACAGCCCAACAACCTTAAAAGCTTTGATGGCCTTGCTGTGAGTTATACTAACACTGGCC
 ATCAGCAGGATGCCTGTGACGCTCTGAAGAATTGGATTAAGCAAAATCCAAGTACAAAATACCTTTGTGAA
 AAGCAAGAAGGGATCTCCAGGCCTCACCGCGGATGTCTAAGTCCCCAGTTGATAGCTCTGTTCTGGAA
 GGGGTGAAGGAATTATATCTGGAAGCTGCCACCAAAATGGAGATATGATCGACCCAGACCTGCAGACAG
 GTCTAGGGTTCTGTTCCACCTGAGTGGAGAATTTAATAGAGCAATAGATGCATTTAACGCTGCCTTAAC
 TGTTTCGGCCAGAGGACTATTCATATGGAACCGCCTCGGGGCGACCTTGCGAACGGAGACCGCAGCGAG
 GAAGCCGTGGAGGCTATACGCGAGCACTGGAGATTGAGCCAGGATTCATCCGGTCCAGATACAACCTAG
 GAATAAGCTGCATCAACCTGGGCGCTACAGAGAAGCGGTGAGCAATTTCTCACTGCCCTCAGTTTGCA
 AAGAAAGAGCAGGAATCAGCAGCAAGTTCTCATCTGCAATCTCTGGGAATATCTGGGCTGCCCTCAGA
 ATTGCGCTCTCTGATGGACCAACCAGAACTTCTCCAGGCGGTAATCTTGGTGACCTGGATGTCTCT
 TAAGAGCTTTCAACTTGATCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234510 representing NM_001256752
 Red=Cloning site Green=Tags(s)

MYQGHMQKSKEQYGYKLSSEDELEIIVDQKQLVNEQQESRPLLSPSIDDFLCETKSEAIARPVTSNTAVL
 TTGLDLLDLSEPVSQTQTKAKKSEPSSKSSLKKKADGSDLISTDAEQRGQPLRVPETSSLDLDIQTQLE
 KWDDVVKFHGDRNTKGHPMAERKSSSRTGSKELLWSSEHRSQPELSSGKSALNSESASELELVAPTQARL
 TKEHRWGSALLSRNHSLEEEFERAKAAVESDTEFWDKMQAEWEEMARRNWIENQEAQNQVTISASEKGY
 YFHTENPFKDWGAFEEGLKRLKEGDLPTILFMEAILQDPGDAEAWQFLGITQAEENEQAIIVALQR
 CLELQPNLKMALAVSYTNTGHQDQDACDALKNWIQNPYKYLKSKKGSPLTRRMSKSPVDSSVLE
 GVKELYLEAAHQNGDMIDPDLQTLGVLFHLSGEFNRAIDAFNAALTVRPEDYSLWNRLGATLANGDRSE
 EAVEAYTRALEIQPGFIRSRYNLGISINLGAAYREAVSNFLTALSLQRKSRNQQVPHPAISGNIWAALR
 IALSLMDQPELQAAANLGDLDVLLRAFNLDP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001256752

ORF Size: 1773 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_001256752.2](#)

RefSeq Size: 9100 bp

RefSeq ORF: 1776 bp

Locus ID: 51555

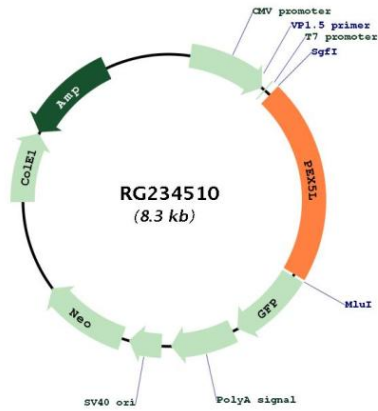
UniProt ID: [Q8IYB4](#)

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 RG234510