

Product datasheet for **RC226052**

PEX5 (NM_001131026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 (NM_001131026) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX5
Synonyms:	PBD2A; PBD2B; PTS1-BP; PTS1R; PXR1; RCDP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC226052 representing NM_001131026
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAATGCGGGAGCTGGTGGAGGCCAATGCGGGGTGCCAACCCGCTCATGAAGCTCGCCGGGCACT
TCACCCAGGACAAGGCCCTTCGGCAGGAGGGATTGAGGCCTGGCCCTGGCCCCGGAGCCCCGGCCTC
TGAGGCAGCCTCCAAGCCTTTGGGAGTAGCTTCTGAAGATGAGTTGGTGGCTGAATTCCTGCAGGACCAG
AATGCACCCCTTGTGTCCCGTGCCCTCAGACCTCAAGATGGATGACCTCCTGGCTGAGATGCAGCAGA
TTGAGCAGTCAAACCTCCGCCAGGCTCCCAGAGAGCCCTGGTGTGGCAGACTTGGCCTTGTCTGAGAA
CTGGGCCCAGGAGTTTCTGCAGCTGGAGATGCTGTGGATGTAACCTCAGGATTATAATGAGACTGACTGG
TCCAAGAATTCATCTCTGAAGTTACAGACCCCTTGTCTGTGTCCCTGCCCGTGGGCTGAGGAATATT
TGGAGCAATCAGAGGAGAAGCTGTGGCTGGGAGAACCTGAGGGAACAGCCACCGATCGCTGGTATGATGA
ATATCATCTGAGGAGGATCTGCAGCACACGGCCAGTGACTTTGTGGCCAAAGTGGATGACCCCAAATTG
GCTAATTCGAGTTCTGAAATTCGTGCGGCAGATTGGCGAAGGGCAGGTGTCCCTGGAGTCCGGTGCAG
GGTCCGGCCGAGCTCAGGCAGAACAGTGGGCAGCAGAGTTTATACAGCAGCAGGGTACATCAGATGCCTG
GGTTGACCAGTTCACAAGACCAGTAAACACATCTGCCCTTGATATGGAGTTTGAACGAGCCAAGTCAGCT
ATAGAGTCTGATGTCGATTTCTGGGACAAGTTGCAGGCAGAGTTGGAGGAGATGGCAAAACGGGATGCTG
AGGCCACCCCTGGCTTCTGACTATGATGACCTTACGTCAGCTACCTATGATAAGGGGTACCAGTTTGA
GGAGGAGAACCCCTTGCCTGATCACCCCTCAGCCTTTTGAAGAAGGGCTGCGGCGCCTT CAGGAGGGGGAC
CTGCCAAATGCTGTGCTGCTTTTTGAGGCAGCTGTGCAGCAGGATCCTAAGCACATGGAAGCTTGGCAGT
ATCTGGGTACCACCCAGGCAGAGAATGAACAAGAACTATTAGCCATCAGTGCATTGCGGAGGTGTCTGGA
GCTAAAGCCAGATAACCAGACAGCACTGATGGCGCTGGCTGTGAGCTTACCAACGAGTCCCTGCAGCGA
CAGGCCTGTGAAACCCTACGAGACTGGCTGCGGTACACACCAGCCTATGCCCATCTGGTGACACCTGCTG
AAGAAGGGGCTGGTGGGGCAGGACTGGGCCCCAGCAAGCGTATCCTGGGATCTCTCTTGTCTGACTCCCT
GTTTCTTGAAGTGAAGAGCTCTTCTGGCAGCTGTGCGGCTGGACCCTACCTCCATTGACCCTGATGTG
CAGTGTGGCTTGGGAGTCTTTTCAACCTGAGTGGGGAGTATGACAAGGCCGTGGACTGCTTACAGCTG
CCCTCAGCGTTTCGTCCCAATGACTATTTGCTGTGAATAAGCTAGGCGCCACCCTGGCCAATGGAACCA
GAGTGAAGAAGCAGTAGCTGCGTACCGCCGGGCCCTCGAGCTCCAGCCTGGCTATATCCGGTCCCCTAT
AACCTGGGCATCAGCTGCATCAACCTCGGGGCTCACCGGGAGGCTGTGGAGCACTTCTGGAGGCCCTGA
ACATGCAGAGGAAAAGCCGGGGCCCCGGGGTGAAGGAGGTGCCATGTCCGAGAACATCTGGAGCACCT
GCGTTTGGCATTGTCTATGTTAGGCCAGAGCGATGCCTATGGGGCAGCCGACGCGGGGATCTGTCCACC
CTCCTAACTATGTTTGGCTGCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_001131026.2](#)

RefSeq Size: 2693 bp

RefSeq ORF: 1920 bp

Locus ID: 5830

UniProt ID: [P50542](#)

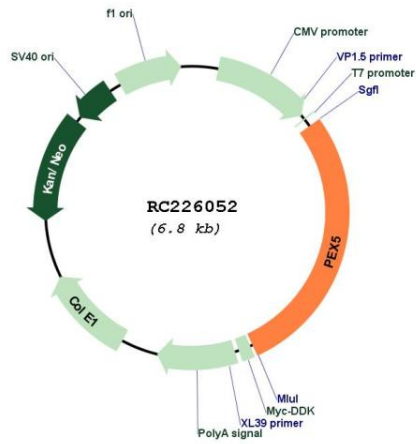
Cytogenetics: 12p13.31

Protein Families: Druggable Genome

MW: 70.9 kDa

Gene Summary: The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC226052