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Product datasheet for RC202432

PEX7 (NM_000288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX7 (NM_000288) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX7
Synonyms:	PBD9B; PTS2R; RCDP1; RD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202432 representing NM_000288
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGCGGTGTGCGGTGGAGCGGCGCGGATGCTGCGGACGCCGGGACGCCACGGCTACGCCGCCGAGT
TCTCCCCGTACCTGCCGGGCCGCCTGGCCTGCGCCACCGCGCAGCACTACGGCATCGCGGGCTGTGGAAC
CCTACTAATATTGGATCCAGATGAAGCTGGGCTAAGGCTTTTTAGAAGCTTTGACTGGAATGATGGTTTG
TTTGATGTGACTTGGAGTGAGAACAACGAACATGTCCTCATCACCTGTAGTGGCGATGGCTCGCTGCAGC
TCTGGGACACTGCCAAAGCTGCAGGGCCACTGCAAGTCTATAAAGAACACGCTCAGGAGGTGTATAGTGT
TGATTGGAGCCAAACCAGAGGTGAACAGCTTGTGGTGTCTGGCTCATGGGATCAAACTGTCAAATTGTGG
GATCCAACTGTTGGAAAGTCTCTGTGCACCTTTAGAGGCCATGAAAGTATTATTTATAGCACAATCTGGT
CTCCCCACATCCCTGGTTGTTTTGCTTCAGCCTCAGGTGATCAGACTCTGAGAATATGGGATGTGAAGGC
AGCAGGAGTAAGAATCGTGATTCCTGCACATCAGGCAGAAATCTTGAGTTGTGACTGGTGTAAATACAAT
GAGAATTTGCTGGTGACCGGGGCGGTTGACTGTAGTTTGAGAGGCTGGGACTTAAGGAATGTACGACAAC
CAGTGTTTGAACTTCTTGGTCATACCTATGCTATTAGGAGGGTGAAATTTTCACCATTTCATGCTTCTGT
GCTGGCCTCTTGCTCGTATGATTTTACTGTAAGATTCTGGAACTTTTCAAAGCCTGACTCTCTTCTTGAA
ACAGTGGAGCATCATACAGAGTTTACTTGTGGTTTAGACTTCAGTCTTCAGAGCCCCACTCAGGTGGCTG
ACTGTTCTTGGGATGAAACAATAAAGATCTATGACCCTGCTTGTCTTACTATTCCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC202432 representing NM_000288
Red=Cloning site Green=Tags(s)

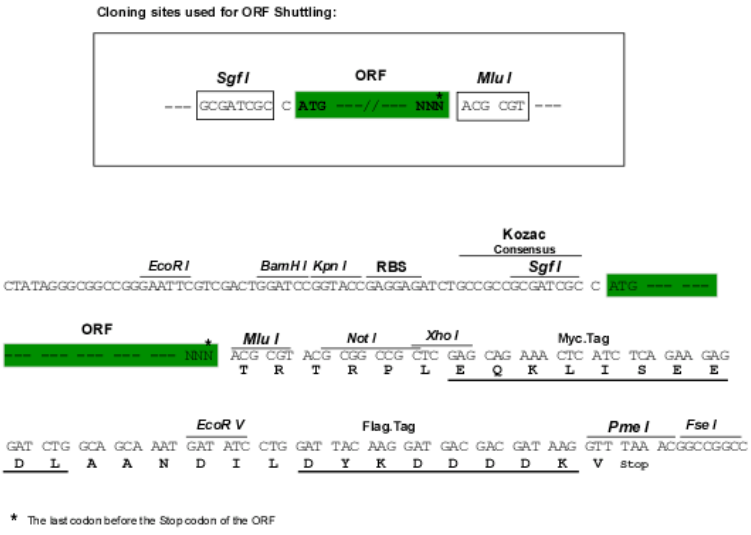
MSAVCGGAARMLRTPGRHGYAAEFSPYLPGRLACATAQHYGIAGCGTLLILDPDEAGLRLFRSFDWNDGL
FDVTWSENNEHVLITCSGDGSLQLWDTAKAAGPLQVYKEHAQEVYSVDWSQTRGEQLVVSGSWDQTVKLW
DPTVGKSLCTFRGHESIIYSTIWSPHIPGCFASASGDQTLRIWDVKAAGVRIVIPAHQAEILSCDWCKYN
ENLLVTGAVDCSLRGWDLRNVRQPVFELLGHTYAIRRVKFSPFHASVLASCSYDFTVRFWNFSKPDSLLE
TVEHHTEFTCGLDFSLQSPTQVADCSWDETIKIYDPACLTIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3588_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000288

ORF Size: 969 bp

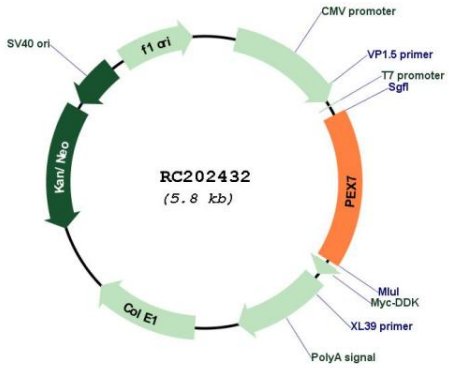
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

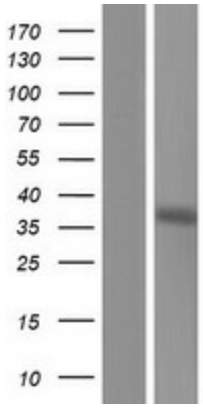
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000288.4
RefSeq Size:	1451 bp
RefSeq ORF:	972 bp
Locus ID:	5191
UniProt ID:	O00628
Cytogenetics:	6q23.3
Domains:	WD40
Protein Families:	Druggable Genome
MW:	35.7 kDa
Gene Summary:	This gene encodes the cytosolic receptor for the set of peroxisomal matrix enzymes targeted to the organelle by the peroxisome targeting signal 2 (PTS2). Defects in this gene cause peroxisome biogenesis disorders (PBDs), which are characterized by multiple defects in peroxisome function. There are at least 14 complementation groups for PBDs, with more than one 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 have been associated with PBD complementation group 11 (PBD-CG11) disorders, rhizomelic chondrodysplasia punctata type 1 (RCDP1), and Refsum disease (RD). [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC202432



Western blot validation of overexpression lysate (Cat# [LY424821]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).