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Product datasheet for SC320225

PEX19 (NM_002857) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX19 (NM_002857) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX19
Synonyms:	D1S2223E; HK33; PBD12A; PMP1; PMPI; PXF; PXMP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene sequence for NM_002857.2
AGATGGCCGCCGCTGAGGAAGGCTGTAGTGTCGGGGCCGAAGCGGACAGGGAATTGGAGG
AGCTTCTGGAAAGTGCTCTTGATGATTTCGATAAAGCCAAACCCTCCCCAGCACCCCCTT
CTACCACCACGGCCCCTGATGCTTCGGGGCCCCAGAAGAGATCGCCAGGAGACACTGCCA
AAGATGCCCTCTTCGCTTCCCAAGAGAAGTTTTTCCAGGAACTATTCGACAGTGAACTGG
CTTCCCAAGCCACTGCGGAGTTCGAGAAGGCAATGAAGGAGTTGGCTGAGGAAGAACCCC
ACCTGGTGGAGCAGTTCCAAAAGCTCTCAGAGGCTGCAGGGAGAGTGGGCAGTGATATGA
CCTCCCAACAAGAATTCACTTCTTGCCTAAAGGAAACACTAAGTGGATTAGCCAAAAATG
CCACTGACCTTCAGAACTCCAGCATGTCGGAAGAAGAGCTGACCAAGGCCATGGAGGGGC
TAGGCATGGACGAAGGGGATGGGGAAGGGAACATCCTCCCCATCATGCAGAGTATTATGC
AGAACCTACTCTCCAAGGATGTGCTGTACCCATCACTGAAGGAGATCACAGAAAAGTATC
CAGAATGGTTGCAGAGTCATCGGGAATCTCTACCTCCAGAGCAGTTTGAAAAATATCAGG
AGCAGCACAGCGTCATGTGCAAAATATGTGAGCAGTTTGAGGCAGAGACCCCCACAGACA
GTGAAACCACTCAAAAGGCTCGTTTTGAGATGGTGCTGGATCTTATGCAGCAGCTACAAG
ATTTAGGCCATCCTCCAAAAGAGCTGGCTGGAGAGATGCCTCCTGGCCTCAACTTTGACC
TGGATGCCCTCAATCTTTCGGGCCCACCAGGTGCCAGTGGTGAACAGTGTCTGATCATGT
GAAACACAACACGTTTTCCTCTCTGAGTCCCAGCTATGGGGAACATCTGGAGTCAGCAGA
ACCATTGGGACCTGAGGCAGGAGTGTCACCTGCGGGAGAAGTCTGCCCGCTGCCCTCTGT
CATCCCATTCAAGATTGTGCCATACCAGCTGAGGTTTTTCCTCTGTCTCTCTAGGAATAG
GGTCTGTTTCACAGGCCATTTCTGTGAACCCTACTCCATTGTGGTTTCTGCCACTATCAA
AGTTCCAGCTACCTGCAAGGTGAAGGAAGGCATCCCTTTTGGGGCATGCACTTTCTTTCC
TTTCTCAAAATAATGTTATATGTGGCCACACTGATGTTCACCTTTACGTCCAGGGTCTTT
GTGCCTTGTCTCTACTCCCTCTCTTGGATCTGGGGAGGAGGGGCAGAGACCTGGGACTCT
GTATTTCTATAGTTCTCCTGGCAGAGCCTTTGAGAATGGGGAGAAACAGCCTGGGCTGGG
GCTACAGGTCTGTCACTATGCTCTCTTGCCTTCAGACAGACCATTCTGAATTCTCTAAAG
GGAAAGGGCTTTTGCATCTAATCACAATAGAGTTGAAAGAGAGGCCTTAGGATTCTCCTC
TCTCTAGGTGCTGAGCCCTCACCTCCCTGTTCCAGGCTGAGAACTCAAATGGTTACCCTG
CTTCTTCCTACAATGCTGTGTGATATGGGTGAACCCAGCCCCTGACCTTCCTCTATCCCC
TGCCCATCCTCCCTTTTACCTCCTCTCTTTTTTAAACACCTGTTTATCCCAACCTTTTTG
AGCTCAAGCTGTGATAAAGAAGGGCCCATCCTATTTCCCCTCATCTAGTCCATTTACGAT
TCTCACTGACTCCCCGTCTTCCTGGCAGACACAAATAAACCCAGTGTCAGGTCTAGGAAA
TTAATGGCTATTCTTCCCCAGATACATTCTGGCTTATTTGAGATACATGATTCTCTTAGA
ATCCTGTCCCTTGGTTCAGGAAAGTAGCTTGGAAAAGGAGTAGGGGTATAGCTTGGGTCC
CTTTTCCTGCAAGGCCCCATGGGGCAGAATATAATAAATATTCTGAGTGAGGAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_002857

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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).

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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_002857.2, NP_002848.1
RefSeq Size:	3669 bp
RefSeq ORF:	900 bp
Locus ID:	5824
UniProt ID:	P40855
Cytogenetics:	1q23.2
Domains:	Pex19
Protein Families:	Druggable Genome
Gene Summary:	This gene is necessary for early peroxisomal biogenesis. It acts both as a cytosolic chaperone and as an import receptor for peroxisomal membrane proteins (PMPs). 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. These disorders have at least 14 complementation groups, with more than one phenotype being observed for some 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 Zellweger syndrome (ZWS), as well as peroxisome biogenesis disorder complementation group 14 (PBD-CG14), which is also known as PBD-CGJ. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2010] Transcript Variant: This variant (1, also known as PxFall or PEX19all) represents the longest transcript and encodes the longer isoform (a).

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