Datasheet for ABIN7562239

# PEX5 Protein (AA 1-639) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | PEX5 |
| Protein Characteristics: | AA 1-639 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PEX5 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Pex5 Protein expressed in mammalian cells. |
| Sequence: | MAMRELVEGE CGGANPLMKL ATHFTQDKAL RQEGLRPGPW PPGASAAETV SKPLGVGTED ELVSEFLQDQ NATLVSRAPQ TFKMDDLLAE MQEIEQSNFR QAPQRAPGVA DLALSENWAQ EFLAAGDAVD VAQDYNETDW SQEFIAEVTD PLSVSPARWA EEYLEQSEEK LWLGDQEGSS TADRWYDEYH PEEDLQHTAS DFVSKVDDPK LANSEFLKFV RQIGEGQVSL ESAAGSGGAQ AEQWAAEFIQ QQGTSEAWVD QFTRPGNKIA ALQVEFERAK SAIESDVDFW DKLQAELEEM AKRDAEAHPW LSDYDDLTSA SYDKGYQFEE ENPLRDHPQP FEEGLHRLEE GDLPNAVLLF EAAVQQDPKH MEAWQYLGTT QAENEQELLA ISALRRCLEL KPDNRTALMA LAVSFTNESL QRQACETLRD WLRYSPAYAH LVAPGEEGAT GAGPSKRILG SLLSDSLFLE VKDLFLAAVR LDPTSIDPDV QCGLGVLFNL SGEYDKAVDC FTAALSVRPN DYLMWNKLGA TLANGNQSEE AVAAYRRALE LQPGYIRSRY NLGISCINLG AHREAVEHFL EALNMQRKSR GPRGEGGAMS ENIWSTLRLA LSMLGQSDAY GAADARDLSA LLAMFGLPQ **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity** |

## Product Details

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| | **of the protein could make another tag necessary. In case you have a special request, please contact us.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | PEX5 |
| Alternative Name: | Pex5 (PEX5 Products) |
| Background: | Peroxisomal targeting signal 1 receptor (PTS1 receptor) (PTS1R) (PTS1-BP) (PXR1P) (Peroxin-5) (Peroxisomal C-terminal targeting signal import receptor) (Peroxisome receptor 1),FUNCTION: Receptor that mediates peroxisomal import of proteins containing a C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type). Binds to cargo proteins containing a PTS1 peroxisomal targeting signal in the cytosol, and translocates them into the peroxisome matrix by passing through the PEX13-PEX14 docking complex along with cargo proteins. PEX5 receptor is then retrotranslocated into the cytosol, leading to release of bound cargo in the peroxisome matrix, and reset for a subsequent peroxisome import cycle. {ECO:0000250\|UniProtKB:P50542}., FUNCTION: [Isoform 1]: In addition to promoting |

## Target Details

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| | peroxisomal translocation of proteins containing a PTS1 peroxisomal targeting signal, mediates peroxisomal import of proteins containing a C-terminal PTS2-type peroxisomal targeting signal via its interaction with PEX7. Interaction with PEX7 only takes place when PEX7 is associated with cargo proteins containing a PTS2 peroxisomal targeting signal. PEX7 along with PTS2-containing cargo proteins are then translocated through the PEX13-PEX14 docking complex together with PEX5. {ECO:0000250\|UniProtKB:P50542}., FUNCTION: [Isoform 2]: Does not mediate translocation of peroxisomal import of proteins containing a C-terminal PTS2-type peroxisomal targeting signal. {ECO:0000250\|UniProtKB:P50542}. |
| Molecular Weight: | 70.8 kDa |
| UniProt: | O09012 |
| Pathways: | Monocarboxylic Acid Catabolic Process |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |

 