

Product datasheet for **MC221291**

Phex (NM_011077) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phex (NM_011077) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phex
Synonyms:	Gy; HPDR; HPDR1; Hyp; PEX
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221291 representing NM_011077
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCAGAAACAGGGAGCACCATTGGAGACTGGAAAGGGACCAACCGAGGCATTCGGATTGCACTGG
 CCCTGTTTATTGGTGGCACCCCTGGTGTGGGCACACTGCTCTTTCTAGTGAGTCAAGGTCTCCTAAGTTT
 CCAAGCTAAACAGGAGTACTGTCTGAAGCCAGAATGCATAGAAGCCGCTGCTGCCATCATGAGCAAAGTA
 AATCTTTCTGTGGATCCTTGTGAGAATTTTTCCGGTTTGCTTGTGATGGCTGGATAAGCAATAACCCAA
 TTCCTGAAGATATGCCAAGCTATGGGGTTTATCCTTGGCTGAGACACAATGTTGACCTCAAGTTGAAGGC
 ACTTCTGGAGAAATCAGTCAGCCGAAGGCGGGACACTGAAGCCGTACAGAAAGCCAAAATCCTCTACTCA
 TCCTGCATGAATGAGAAAGCAATTGAAAAAGCAGATGCCAAGCCACTGCTCCACATCTTGAGGCATTAC
 CTTTCCGCTGCCAGTGTGAAGCTAATTGGTCTGAAGGGTTTGGTCAGAGAGAAAATTCAGTCT
 ACTGCAAAACTGGCAACGTTCCCGGTCAATACAGCAATTCTGTGTTCCCGTTTGTATGTGCCCT
 GATGACAAGGCATCCAATGAACATATCTTGAAGCTGGACCAAGCAACACTCTCTGCGTGAAGGGGAA
 ACTTCTGGATAACACTACTGAAGCCAAATCTTATCGGGATGCCCTTTACAAATTCATGGTGGACTGC
 TGTGCTTTTAGGAGCTAATAGCTCTCGAGCTGAACATGACATGAAGTCGGTGTAGACTGGAAATTAAG
 ATAGCTGAGATAATGATTCACATGAGAACCGAACAGTGAAGCTATGTATAACAAAATGAACATCTCAG
 AACTCAGCGCTATGATCCCCAGTTTACTGGCTGGGCTATATCAAGAAGGTCATTGATACCAGACTCTA
 CCCACACTTGAAGACATTTGGTCCCTCGGAGAAATGTGGTGGTCCGCGTCCCACAGTACTTTAAGATTTG
 TTTAGGATATTAGGTGCCGAGAGGAAGAAAACCAATTGCCAATTTAGTGTGGAGAATGGTTTATTCCA
 GAATCCAAACCTCAGCAGGCGCTTTCAATATAGATGGCTAGAATTCTCAAGGGTAAATCCAGGGGACCAC
 AACTCTGCTGCCTCAGTGGGACAAATGTGTCAACTTTATTGAGAGTGCCTCCCATATGTTGTGGGAAA
 ATGTTTGTGAATGTTCACTTCCAGGAGGATAAGAAGGAAATGATGGAAGAATTGATTGAGGGTGTTCGCT
 GGGCTTCATTGACATGCTGGAGAAAGAAAATGAATGGATGGATGCAGGGACAAAAGGAAAGCTCAAGA
 AAAGGCAAGAGCTGTTTTGGCAAAAGTTGGCTATCCAGAGTTTATAATGAATGATACTTATGTTAATGAA
 GACCTCAAGGCAATCAAATTTTCAGAATCGGACTACTTTGGCAACGACTGCAAACCCGCAAGTATTTAG
 CACAGTCTGATTTCTTCTGGCTAAGAAAAGCTGTCCCAAACAGAGTGGTTTACAAACCAACAACAGT
 CAATGCCTTTTACAGTGCATCTACCAACCAGATACGATTTCTGCTGGAGAGCTGCAGAAGCCTTTCTTT
 TGGGGAACAGAATACCCTCGATCCCTGAGTTATGGTGCTATAGGAGTAATTGTGGGCCATGAATTTACAC
 ATGGATTTGATAATAATGGTAGAAAATATGATAAAAATGGAAACCTTGATCCGTGGTGGTCTGTGGAATC
 AGAAGAAAAGTTAAGGAAAAACAATAATGCATGATTAACCAAGTATAGCAACTATTATTGGAAGAAAGCC
 GGCTTAAATGTGAAGGGGAGAGACCCTGGGAGAAAATATTGCTGATAATGGGGGTCTGCGAGAAGCTT
 TTAGGGCTTACAGGAAATGGATAAATGATAGAAGACAGGGAGTTGAAGAGCCCCTCCTACCAGGCATCAC
 ATTCACCAACAATCAGCTCTTCTTCTGAGTTATGCTCATGAAGGTGCAATTCCTATAGACCAGAAGCT
 GCCAGAGAACAAGTGCAATTTGGTGCTCACAGTCCCTCCACAATTTAGGGTCAATGGTGCCATTAGCAACT
 TTGAAGAATTTAGAAAAGCTTTTAACTGTCCACGAAATTCACATGAACAGAGGTGCAGATTCTGCCG
 ACTCTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011077
Insert Size: 2250 bp

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).
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:	<ol style="list-style-type: none">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_011077.2 , NP_035207.1
RefSeq Size:	6265 bp
RefSeq ORF:	2250 bp
Locus ID:	18675
UniProt ID:	P70669
Cytogenetics:	X 72.38 cM
Gene Summary:	Peptidase that cleaves SIBLING (small integrin-binding ligand, N-linked glycoprotein)-derived ASARM peptides, thus regulating their biological activity (By similarity). Cleaves ASARM peptides between Ser and Glu or Asp residues (By similarity). Regulates osteogenic cell differentiation and bone mineralization through the cleavage of the MEPE-derived ASARM peptide (PubMed:11159866, PubMed:18597632, PubMed:26051469). Promotes dentin mineralization and renal phosphate reabsorption by cleaving DMP1- and MEPE-derived ASARM peptides (PubMed:26051469). Inhibits the cleavage of MEPE by CTSB/cathepsin B thus preventing MEPE degradation (By similarity).[UniProtKB/Swiss-Prot Function]