

Product datasheet for **MC224790**

Prex1 (NM_177782) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prex1 (NM_177782) Mouse Untagged Clone
Tag: Tag Free
Symbol: Prex1
Synonyms: G630042G04; P-REX1; Setd6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224790 representing NM_177782
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCACCCGGCAGCGGTGGTGGTGACGGCGGGGACCCAGGCGGGGACGGTGCCATCCC
 GATGCTCGCGGCCCGTCTCCGGGCCGTGCGCGGCCCGCGACTCGGAGCGCCAGCTGCGCCTCCG
 TCTGTGCGTACTCAACGAGATCCTGGGCACCGAGCGGACTACGTGGGCACCTTGGCTTTCCTG
 CAGTCCGGCTTCTACAGCGGATCCGGCAGAATGTGGCCGACTCTGTGGAGAAGGGCCTCACAG
 AAGAGAATGTCAAGTCCCTCTTCTCAACATTGAGGACATCCTGGAAGTCCATAAGGATTTTCT
 GGCTGCCCTGGAGTACTGCTTACACCCGAGCCTAGTGGAAATGTTTTCTTAAATTTAAGGACA
 AGTTCTGTGTGATGAGGAGTACTGCAGCAACCACGAGAAGGCCCTGCGCCTGTTGGTGGAGCT
 CAACAAGGTCCTGTGTGCTGTGCTCCCTCCTGAGCTGCATGCTTCTGGGGGCGGAAGACCA
 CTGACATTCTTGGAAAGGCTACCTGCTGTCCCCGATCCAGAGAATCTGCAAGTACCCGCTCT
 GCTCAAGGAGTTGGCCAAGAGGACCCCGGC
 AAGCACCCTGACCACACCGCGGTACAGAGTCCCTGCAGGCCATGAAGACTGTCTGCTCCAACAT
 CAATGACTAAGAGGCAGATGGAGAAGCTGGAGCCCTGGAGCAGCTGCAGTCTCACATTGAAGG
 CTGGAGGGCTCCAACCTCACAGACATCTGCACCGAGCTCCTCTTCAGGGCAACCTGCTGAAG
 ATCTGCGGGCAACATCCAAGAGAGAGCCTTCTCTCTTTGACAACCTGCTTGTCTACTGCAAG
 CGGAAGTCTAGGGTCACTGGAGCAAGAAATCTACAAAAGGACCAAGTCCATCAACGGCTCCCT
 GTACATCTTTAGGGTTCGGATCAACTGAGGTCAATGGAAGTGGAGAATGTGGAGGATGGGAC
 AGCCGATTACCACAGCAATGGCTACTGTCACCAATGGCTGGAAGATCCACAACACCGCCAAA
 AACAAGTGGTTCGTGTGATGGCCAAGACGGCGAGGAGAAACAGAAGTGGCTGGATGCCCTG
 ATCCGAGAGCGGGAGCAGCGAGAGAGCCTGAAGCTGGGCATGGAAGGCGTACGTCATGATT
 GCGGAGAAGGGGAGAAGCTGTATCACATGATGATGAGCAAGAAGGTGAACCTGATCAAGG
 ACCGCGGGAAGCTGAGCACCGTCCCAAGTGTCTCCTTGCCAATGAGTTTGTTCCTGGCTCCT
 GGAATTGGTGTGATCAGCAAGACGGAAGAAGGCGTCAACTTGGGCCAAGCCCTGCTGGA
 GAATGGTATCATCCACCATGTCTCTGACAAGCACCAGTTCAAGAACGAGCAGGTGATGTACC
 GCTCCCGTACGACGACGGCACTTACAAAGCGCGCAGCGAGCTGGAGGATATCATGTCCAAG
 GCGTGAGACTACT



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GCCGGCTGCACAGCCTGTACGCCCTGTGATCAAGGACCGTGATTACCACCTGAAGACCTACAAGTCCGT
 GGTCCCCGGGAGCAAGCTGGTAGACTGGCTACTGGCACAGGGGGACTGCCAGACACGGGAGGAGGCCGTG
 GCGCTTGGTGTGGGCCTGTGCAACAACGGTTTTATGCACCATGTTCTGGAGAAGAGCGAATTCAGGATG
 AGTCCCAGTACTTCCGCTTCCATGCTGATGAGGAGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCG
 CAATGACTTCAAGCTGGTGGAGAACATCCTGGCAAAGCGACTGCTGATCCCGCCACAGGAGGACGACTAT
 GGCTTCGACCTTGAGGAGAAGAACAAGGCTGTGGTAGTGAAGTCTGTGCAGAGGGGCTCGCTGGCTGAGA
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 GAAAGTCAACGGCACCAGCGTGGCGAATGATGGCGCCCTGGAGGTTCTCGAGCACTTCCAGGCTTCCGC
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 GAGCCAGCCAGGGTGGCCCTGATGAGGACCCCAAGGAAGTACCAGCCTGACTCAGCCCTGCCCTGCT
 GTCCTGGGTCCCAAGCTGAGTCTGCATGAGGACAGCGCTGTGGTCAAGCTGACGCTGGACAATGTTAC
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 TGAAGAGTAGGGTCAGCCCCCTTCAAGCAGGCATCCCTGGAGCCCCACCCGCTGTGTGGCCTTGACTT
 CTGCCCAACCACTGTACAGTCAACCTCATGGAAGTGTCTACCCCAAGACCACCTTCGGTGGCAGG
 TCCTTCAGCATCCGCTTCGGACGCAAACCTCCCTCATCGGCCTTGACCCAGAACAAGGCCTGAACCCCA
 TGGCCTATACCCAGCACTGTATCACCACCATGGCTGCCCGCTGGAAGTGTCACTGCTGTAGACGA
 GGACTCCCAAGGCCAGGGTCTCAATGACAGCAGCTATGGGTGAGCCAGTGGTCCCGGAGCCAGCAAG
 CGCGGCCTGAGCTTTCTGCTCAAACAGGAAGACCGTGAGATCCAGGACGCATACCTGCGAGCTCTTACTA
 AGCTGGACGTGGCCCTCAAGGAGATGAAGCAGTATGTCACCCAGATTAACAGGCTGCTGTCAACCATCAC
 AGAGCCACATCAGCTGCCCTGCGCCCTGTGACCCATCCTTGGTGGAGGAGACCTCATCTTCCCCACCG
 GTCAGTGAGGAGAGTGAAGTGGACCGGACTGACCACAGCGGCATCAAGAAAGTGTGCTTCAAGGTGTCGG
 AGGACGAGCAGGAAGACTCGGGCCACGACACCATGAGCTACCGGACTCCTACAGTGAGTGAACAGCAA
 TCGGGACTCTGCTCTGCTACACCAGCGTGAGAAGCAACAGTTCGTACCTGGGTAGTGACGAGATGGGC
 TCAGGGGATGAGCTGCCCTGTGACATGCGCATCCCGTCCGACAAGCAGGACAACTTACCGCTGCCTGG
 AACATCTCTTTAACAGGTGATTTCCATCCATGCCCTGCTCAAGGGCCCTGTGATGAGCAGGGCATTGGA
 GGAGACCAGGCATTTCCCATGAAGCACAGCTGGCAAGAGTTCAAACAGAAAGAGGAATGCACGGTCCGA
 GGGCGAACTTGATTAGATCAGTATCCAGGAGGACCCCTTGAACCTGCCAGCTCCATCAGGACCCCTGG
 TGGACAACATCCAGCAATACGTGGAAGATGGAAGAACCAGCTGCTTCTGGCTCTGCTCAAGTGCACAGA
 CACGGAGCTGCAGCTGCGCAGGGATGCTGTCTTCTGTCAGGCTCTGGTGGCCGCCGCTGTGCACCTTCTCG
 GAGCAGCTGTGGCCGCCCTTACTACCGCTACAACAACAACGGCGAGTATGAAGAGAGCAGCAGAGATG
 CCAGCCGAAGTGGTGGAGCAGGTGGCGGCTACAGGTGTCTGCTGCACTGGCAGTCTCTGCTGGCACC
 AGCCTCCGTGAAGGAGGAACGGACCATGCTGGAGGACATCTGGGTGACGCTGTGCGAGCTGGACAATGTC
 ACCTTCTCTTTAAGCAGCTGGATGAGAATCTGTGGCCAACACCAATGTCTTACCACATCGAGGGCA
 GTAGGCAGGCACTGAAGGTAGTCTTCTACCTCGATGGCTTCCACTTCTCCAGGCTGCCCTCTCGCCTAGA
 GGGTGGGGCCAGCCTCAGGCTGCACACGGTGTCTTACAAAAGCACTGGAGAGCGTGGAAGGGCCCCCG
 CCCCCTGGAAACCAGGCAGCAGAAGAGCTGCAGCAGGAGATCAACGCACAGTCCCTGGAGAAGGTGCAGC
 AGTACTATAGAAAGCTCAGGGCTTCTACCTGGAGCGGTCCAACCTGCCACGGATGCTGGCGCCACAGC
 TGTGAAGATTGACCAGCTGATTCGTCATCAATGCCCTGGATGAGCTCTACCGCTCATGAAGACCTTC
 GTGACCCCAAGCGGGTGTGCTGGGAGCCTGGGTGCTGGTCTCATCCCGTCTCCTCCGAGCTGCTGCT
 ATCGCCTGGGGCGTGTGAGATCACCATGTGTGGCACCAGGATGCAGCGGAGCACCCTGAGCGTGTCTT
 GGAACAAGCAGCCATCTTGGCACGGAGTACGGCCTGTTGCCAAGTGTGTGATGACAGGCCACAGACATC
 ATGCGCAAGCAGGGCCCCGAGTGGAGATTCTGGCCAAAACCTCCGCATCAAGGACCCCATGCCCAAG
 GTGCACCACGCTCTACCAGCTCTGCCAGCCTCCGGTGGATGGAGACCTCTGA

CAAGCTTAACTAGCTAGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATC
 TGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTAAAC

Restriction Sites:	Sgfl-HindIII
ACCN:	NM_177782
Insert Size:	4953 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:	<u>NM_177782.3</u> , <u>NP_808450.2</u>
RefSeq Size:	6530 bp
RefSeq ORF:	4953 bp
Locus ID:	277360
UniProt ID:	<u>Q69ZK0</u>
Cytogenetics:	2 H3
Gene Summary:	Functions as a RAC guanine nucleotide exchange factor (GEF), which activates the Rac proteins by exchanging bound GDP for free GTP. Its activity is synergistically activated by phosphatidylinositol 3,4,5-trisphosphate and the beta gamma subunits of heterotrimeric G protein. May function downstream of heterotrimeric G proteins in neutrophils (By similarity). [UniProtKB/Swiss-Prot Function]