

## Product datasheet for **MC224738**

### Prex2 (NM\_029525) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prex2 (NM_029525) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prex2
Synonyms:	6230420N16Rik; AI316880; AI553603; C030045D06Rik; D430013K02; Depdc2; P-Rex2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224738 representing NM_029525 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGCGACGAAAGCGCCAGGGAAGTAGACAAGCAGCTTCGCCTGCGCGTGTGCGTGCTCAGCGAGCTGC  
AGAAGACCGAGCGCGACTACGTGGGCACGCTGGAGTTCCTGGTGTGCGCCTTCTTGCATCGAATGAACCA  
ATGTGCAGCAGCAAAGGTTGATAAAAATGTGACGGAGGAAACAGTGAAGATGTTATTCTCCAATATCGAG  
GAGATCCTCATCGTTCATAAGGAGTTCCTGAAAGTTGTAGAAGAATGCTTATATCCGGAACCCAGTGCTC  
AGCAGGAAGTGGGAGCCTGCTTCCTTCACTTTAAGGACAAGTTTCGTATCTATGATGAATATTGCAGCAA  
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GGATATGCAAGTACCCTTCTTTTGAAGGAATTAAGAGCGGACTCCACGGAGACATAGTGACTACAC  
AGCAGTGATGGAAGCACTCCAAGCCATGAAAGCCGTGTGTTCCAACATTAATGAGGCCAAGAGACAGATG  
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CCTGTACTGAGATGCTGATGTGTGGAGTCTAATGAAAATTTCTCCGGAATATTCAAGAACGAGTGTT  
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AAATAAATGGTTTGTATGCATGGCTAAAAGCCCTGAAGAAAAGCATGAGTGGTTTGAAGCTATTTTGAAA  
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GCAGGACGTGATTTCTAAGGGTGAAGGCTCTACTGTCGCTTTCATAGTCTGTTTACCCAGTGGTCA  
GATAAAGATTACCATTTAAGAACTACAATCTGTTGTCATGGCCAACAAATTGATAGACTGGTTAATTG



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CACAGGTTGATTGCCGTACCAGGAAGAGGCAATGATATTTGCTGTTGGGCTCTGTGACAATGGATTTAT  
GCATCACGTCTAGAAAAAGTGAATCAAAGATGAGCCTCTACTTTTCCGCTTTTTTGCTGATGAGGAA  
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AGTCACTGTTGATTAATCCAACGAAGGCAGCTATGGCTTTGGCCTAGAAGACAAAAACAAAGTTCCAAT  
AATAAAATTAGTGGAAAAGGGTGAATGCCGAGATGGCTGGCATGGAAGTTGGGAAGAAGATATTTGCC  
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TGATGGAAGTTTCTTATCCGAAAACATCAACTTCCTGGGGAGTGCCTTCGGTGTGCAGCTAGATAGCAG  
AAAACATAATTCTCACGATAAAGAAAATAAATCTGTGAGCCAGGGAACTGAGCCCCATGGTGTATATT  
CAGCACACAATCACAACCATGGCAGCGCTTCGGGCTGTACTGGGACACAAGGATGGGCATGGCCTCC  
AGTATTTGCTGAAAGAAGAAGACTTAGAACTCAAGATATCTATCACAACCTCTGGGCAAGCTGCAGAC  
TGCACTGAAGGAGGTAGAGATGAGCGTTTGTCAAATTGATGACCTTCTGTCTTCAATAACATATTTCTCT  
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TGCAGTTCCTACTTCCACAGTGTGAGATGGACTCAGGTGATGAGCTTCTATCAGTGTCCGGATATCTC  
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CTTGAAAGGACAAGCTGTATAAGAGCCTTTGAGCAGACCAAGTATCTCACACCGGGTGCAGGATTGCAA  
GAATTCACAGGAAATGGAGGCAAGCTGAGTTGCCCCAGGAGGTTGCGGCTCCATCTCAAGCAGGACC  
CCTGGAATCTTCCAGCAGCATCCAGGCGCTTGCACAGAGCATCAGAAAACATGTGAAGAAGTGAAGTG  
CCGCATACTACTGGCTCTCCTTGAATACTCAGACAGTGAACCCAACTCCGGAGAGACATGGTTTTCTGT  
CAAAGTCTTGTGGCCACTGTCTGTGCCTTCTCTGAGCAGCTCATGGCTGCCTTAAACCAGATGTTTGACA  
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TGTGCTTTTTCACTTCCAGTCACTTCTGTACCAAATTTGAAAGATGAACAAGCCATGCTTGAGGATACA  
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CAAATGTCCCTTACCTACCAAGTGAAGGAAGCAGGACGGCTCTGAAAGTTTACTTCTACATGGATAG  
TTACCATTTTGTGAGCAGTGCACCAACGGTTGAAGAATGGAGGAGGTTTAAAATTCATCCTGTTCTCTTT  
TCACAAGCATTGGAGAGTATGGAAGGATATTGCTATAGAGACAACATCTGTGGAAGAGTTTCAAGCAC  
AAATAAACACAGCCTCCCTGGAAAAGGTCAAACAGTACAATCAGAAGCTCAGGGCATTCTACTTGGACAA  
GTCAAATTCACCAACGAATACCACATCTAAGCTGCCTACATAGATAAGCTCATGAAGCCTCTCAATGCT  
TTAGATGAACTTTACCGCTGATCACCTCATTTATCAGATCCAAACGCATCGCTGCCTGTGTGAACACAC  
CTTGCAGCGCCTCTGGAGTCGGACTGCTGTGAGTTTCTTCCAGAGCTGTGTGACAGGCTCGGTGCCTGTCA  
CATCATCATGTGCAGCAGTGGTGTGACCCGGTGCACCCTGAGTGTGACACTAGAGCAAACCATCACTTTA  
GCAAGAAGCCATGGGCTCCCTCCTCGGTACATTATGCAGGCCATGGATGTGATGAGAAAGCAGGGTGCAA  
GAGTTCAGAACACAGCTAAAACTTGGGCTTAGAGACCGGACTCCTCAGTCACTCCAAGGCTGTACAA  
GCTCTGCGAGCCACCACCTCCAGTAGGAGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

<b>ACCN:</b>	NM_029525
<b>Insert Size:</b>	4797 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_029525.1</a> , <a href="#">NP_083801.1</a>
<b>RefSeq Size:</b>	11057 bp
<b>RefSeq ORF:</b>	4797 bp
<b>Locus ID:</b>	109294
<b>UniProt ID:</b>	<a href="#">Q3LAC4</a>
<b>Cytogenetics:</b>	1 A2
<b>Gene Summary:</b>	<p>Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating 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. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important mediator of Rac signaling, acting directly downstream of both G protein-coupled receptors and phosphoinositide 3-kinase (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer variant and it encodes the longer protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>