

Product datasheet for SC200076

PREX2 (NM_025170) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PREX2 (NM_025170) Human 3' UTR Clone
Symbol:	PREX2
Synonyms:	DEP.2; DEPDC2; P-REX2; PPP1R129
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_025170
Insert Size:	677 bp
Insert Sequence:	<p>>SC200076 3'UTR clone of NM_025170</p> <p>The sequence shown below is from the reference sequence of NM_025170. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
ATGCTCTTAGCAGAGAGGGCCCTGTCTGATTCTTACCCTTTGGAACAGTTCAGGCACCCTTAGACACA
GTACACAGCCCTTCTAGCATGTGGGCAGGGGACATCCTGTATTACAGGCATTTGTATTGAGCTACA
AGTTGGAAAGCCAGTCCCCTAGCAAGAGAATCTTCTGCCAGCTCTCCCGATTACTCCATTAACACTT
CTTGACATCACCTATTCAATTTCTTTTTCAGCTTGTACCAAAATTTCTAACTATCTGGCTTTTACGTGC
ATTATATAAATTGTATATATACAGTCATGCACTGCATAACATTTTCAGTAAATGACAGACCATATATATAT
GGATTATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT
ATATATATGTATATATATATAAATGGTGGTCCCATAAGATTATACTACTACATTTTGGCTCTACTTTT
TCTATGTTTCAGATAGATGCACCTATTGGTGTATTTTTCAGAATACATCCCGTTGTTAAGCAATGCATT
ACTGTATTATATATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT
GCAATCACTTTTGCTCCAACCTAGTAATTGCAATAAACAATTGTTGTATATAGCAA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).


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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_025170.6</u>
Summary:	The protein encoded by this gene belongs to the phosphatidylinositol 3,4,5-trisphosphate (PIP3)-dependent Rac exchanger (PREX) family, which are Dbl-type guanine-nucleotide exchange factors for Rac family small G proteins. Structural domains of this protein include the catalytic diffuse B-cell lymphoma homology and pleckstrin homology (DHPH) domain, two disheveled, EGL-10, and pleckstrin homology (DEP) domains, two PDZ domains, and a C-terminal inositol polyphosphate-4 phosphatase (IP4P) domain that is found in one of the isoforms. This protein facilitates the exchange of GDP for GTP on Rac1, allowing the GTP-bound Rac1 to activate downstream effectors. Studies also show that the pleckstrin homology domain of this protein interacts with the phosphatase and tensin homolog (PTEN) gene product to inhibit PTEN phosphatase activity, thus activating the phosphoinositide-3 kinase (PI3K) signaling pathway. Conversely, the PTEN gene product has also been shown to inhibit the GEF activity of this protein. This gene plays a role in insulin-signaling pathways, and either mutations or overexpression of this gene have been observed in some cancers. [provided by RefSeq, Apr 2016]
Locus ID:	80243
MW:	26.4