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Product datasheet for SC202167

NCF4 (NM_000631) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	NCF4 (NM_000631) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	NCF4
Synonyms:	CGD3; NCF; P40PHOX; SH3PXD4
ACCN:	NM_000631
Insert Size:	222 bp
Insert Sequence:	>SC202167 3'UTR clone of NM_000631 The sequence shown below is from the reference sequence of NM_000631. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC AACTACAGGGTCTACAACACGATGCCATGAGCTGACGGTGTCCCTGGAGCAGTGAGGGGACACCAGCAA AAACCTTCAGCTCTCAGAGGAGATTGGGACCAGGAAAACCTGGGAGGATGGGCAGACTTCCTGTCTTTG AGGCTAATGGACCCGTGGGGCTTGTAATCTGTCTCTTTCTACTATTTACATCTGATTTAAATAAACCAT TCCATCTGAAAGGGG ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
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).
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:	NM_000631.5

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Summary: The protein encoded by this gene is a cytosolic regulatory component of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor 1 (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Locus ID: 4689

MW: 8.4