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Product datasheet for SC306472

KNDC1 (NM_152643) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KNDC1 (NM_152643) Human Untagged Clone
Tag:	Tag Free
Symbol:	KNDC1
Synonyms:	bB439H18.3; C10orf23; RASGEF2; v-KIND; Very-KIND
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306472 representing NM_152643. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGGCCATGGACCCGGCCGCGGCGGATCTTTACGAGGAGGACGGCAAAGACCTGGACTTCTACGAC
TTCGAGCCGCTGCCCACCCTCCCCGAGGACGAGGAGAACGTGTCTCTGGCTGACATCCTCTCCCTGCGG
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GAGCCCACACTGGAACCCAGGCTGAGCCAAGACCTCGAGGCGCTGCTGAGCCGGATGCAGGCGGAGGAC
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TATGACTCGTTCTTTCTGGCTCCCGAGCTGGCAGAGGAGAGGCTGGTAACTGAAAAGGCCTCTGTGTAC
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CGGCGCTTCCGGGCGCAGCCCACCCTGCCCTCGGCCCACCTCCTGGCCATGCACATCCAGCAGCTGGAG
ACAGGCGGCTTCACCATGACCAACGGGGCCCACAGGTGGAGCAAGCTCAGGAACATCGCAAAGGTGGTG
AGCCAGGTGCACGCGTTCCAGGAGAACCCTTACACCTTCAGCCCCGACCCCAAGCTCCAGTCGTACCTC

AAGCAGAGGATTGCCCGCTTCAGCGGTGCCGACATTTCCACACTCGCCGCAGATAGCAGGGCCAACTTC
CACCAGGTCTCCAGCGAGAAGCACTCACGGAAGATTCAGGACAAGCTACGGAGGATGAAGGCTACATTC
CAGTAG
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_152643

Insert Size: 5250 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:
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_152643.6

RefSeq Size: 6773 bp

RefSeq ORF: 5250 bp

Locus ID: 85442

UniProt ID: Q76NI1

Cytogenetics: 10q26.3

MW: 191.4 kDa

Gene Summary: The protein encoded by this gene is a Ras guanine nucleotide exchange factor that appears to negatively regulate dendritic growth in the brain. Knockdown of this gene in senescent umbilical vein endothelial cells partially reversed the senescence, showing that this gene could potentially be targeted by anti-aging therapies. [provided by RefSeq, Dec 2016] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.