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Product datasheet for SC122978

ARHGEF14 (MCF2L) (NM_024979) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF14 (MCF2L) (NM_024979) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF14
Synonyms:	ARHGEF14; DBS; OST
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_024979 edited
GGCTGCCCTGCAGAGGCCAGGTCTGCCCAGCAAACCCAGGAAGGTGTGGCGTCCCCGCTT
CGCGGCCAAGATGGTGCTGGTGCTGCGCCATCCTTTGTGTGCCCGGGAAGGGCGTTCCGG
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GAAGTTTTTGGAGACCGGTGCGGAAAATAAGATCCAGGAGCTCAACGCGATTTACAAGGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024979 unedited
NNNGGCAGTTCAAATTTGTATACGACTCATATAGGCCGGCCGCGAATTCGCACGAGGGCT
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GCCAAGATGGTGCTGGTGCTGCGCCATCCTTTGTGTGCCCGGGAAGGGCGTTCCGGGAGC
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TGCCGGGACCTCTGGGCGCTGTGGCTGCTGCTGAAGGCCGGCGCAGATGAAATCATGCAC
CAGGACATCGTCCCGCTCTGTGCTGCCGACATCCAGGACCAGCTAAAGAAGCGCTTTGCT
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AAATTCAATAGAGATGACTTTAAGATGAAGGTGCCGGTCATAATGCTGAGCTCCGTACCA
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TACTGCCACTCCCGGTGGCTGTGCCAGCGCACGGCCATCGAAAGTTTCGCCCTCATGGTG
AAGCAGACGGCTCAGATGCTGCAGTCCTTCGGG

Restriction Sites: Please inquire

ACCN: NM_024979

Insert Size:	3463 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:	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_024979.2, NP_079255.2
RefSeq Size:	3463 bp
RefSeq ORF:	2955 bp
Locus ID:	23263
UniProt ID:	O15068
Cytogenetics:	13q34
Gene Summary:	This gene encodes a guanine nucleotide exchange factor that interacts specifically with the GTP-bound Rac1 and plays a role in the Rho/Rac signaling pathways. A variant in this gene was associated with osteoarthritis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016] Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1, resulting in an isoform (b) with a distinct and shorter N-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments. CCDS Note: The coding region has been updated to represent an alternative splicing pattern that is more supported by the available transcript data.