

Product datasheet for RC212664

ARHGEF10L (NM_001011722) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARHGEF10L (NM_001011722) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ARHGEF10L
Synonyms: GrinchGEF
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC212664 representing NM_001011722
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTTCCTCCAACCCTCTCCACAGCCTGCCATAGGAGATCAGCTGGTTCCAGGAGTCCCAGGCCCT
 CCTCTGAGGCAGAGGACGACCCAGGAGAGGCGTTTGGATTTGATGACAGTGATGATGAAGAGGACACCAG
 CGCAGCCCTGGGGTCCCCAGCCTTGCTCTGAGAGGGACACAGACCCCACTGATCCACTTGGACTCC
 ATCCCTGTCACTGACCCAGACCCAGCAGCTGCTCCACCCGGCACAGGGGTGCCAGCTGGGTGAGCAATG
 GGGATGCAGCGGACGCAGCCTTCTCCGGGGCCCGCACTCCAGCTGGAAGCGGAAGAGTTCCCGTGCAT
 TGACCGGTTCACTTTCCCGCCCTGGAAGAGGATGTGATTTATGACGACGTCCTTCCGAGAGCCAGAT
 GCGCATCAGCCCGGGCAGAGAGGAACCTGCTCTACGAGGATGCGCACCGGGCTGGGGCCCTCGGCAGG
 CGGAGGACCTAGGCTGGAGCTCCAGTGAGTTCGAGAGCTACAGCGAGGACTCGGGGAGGAGGCCAAGCC
 GGAGGTCGAGGTCGAGCCCGCAAGCACCAGTGTCTTCCAGCCCAAGATGACCAGCTCATGAAGGCC
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AGCTAATTAAGTCCAAGGAGCGTCGGGTCTTCCTGCTCAACGACATGCTTGTCTGTGCCAACATCAACT
CAAGCCTGCCAACACAGGGGCCAGCTGGAGATCAGCAGCCTGGTGCCCTGGGGCCAAAGTATGTGGT
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CTTGATGCTA

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Protein Sequence: >RC212664 representing NM_001011722
 Red=Cloning site Green=Tags(s)

MASSNPPPPQAIGDQLVPGVPGPSSEAEEDDPGEAFEFDDSDDEEDTSAALGVPSLAPERDTPPLIHLDS
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 TEKIGDLFVASFSKSMVLDVYSYVNNFTSAMSIIKKA CLTKPAFLEFLKRRQVCS PDRVTLYGLMVKPI
 QRFQFILLQLDMLKNTPRGHPDRLSLQLALTELETLAEKLNQKRLADQVAEIQQLTKSVSDRSSLNKL
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 PLSKISWVNRHLAKIGLREENQPGWLCPDEDKSKAPFWCPILACCIPAFSSRALSLQLGALVHSPVNC
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 VKAGSGVWMAFSSGTSIRLFHTETLEHLQEINIATRFTLLPGQKHL CVTSLLICQGLLWVGTQDQVIVL
 LPVPRLEGIPKITGKGMVSLNGHCGPVAFLAVATSILAPDILRSDQEEAEGPRAEEDKPKDQAHEMPD
 HVGRELTRKKGILLQYRLRSTAHLPGLLSMREPAPADGAALHSEEDGSIYEMADDPDVVWRSRPCARD
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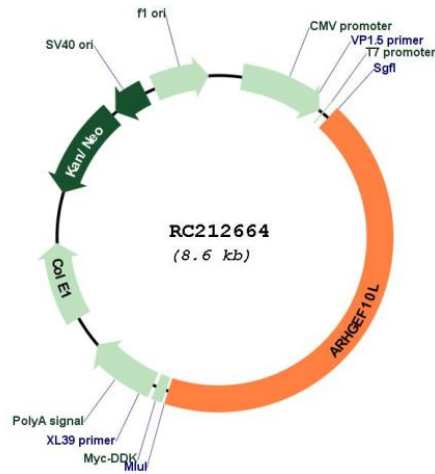
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001011722

ORF Size: 3720 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001011722.2](#), [NP_001011722.2](#)

RefSeq Size: 4269 bp

RefSeq ORF: 3723 bp

Locus ID: 55160

UniProt ID: [Q9HCE6](#)

Cytogenetics: 1p36.13

MW: 135.5 kDa

Gene Summary: This gene belongs to the RhoGEF subfamily of RhoGTPases. Members of this subfamily are activated by specific guanine nucleotide exchange factors (GEFs) and are involved in signal transduction. The encoded protein shows cytosolic distribution. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2016]