

Product datasheet for **RC239495**

FLJ10357 (ARHGEF40) (NM_001278530) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLJ10357 (ARHGEF40) (NM_001278530) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FLJ10357
Synonyms:	SOLO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239495 representing NM_001278530
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCCAAGCCACTGCAGAAGGTGCTGGCAGATCCCCGGCTGACGGCACTGCAGAGGGATGGGGGGCCA
 TCCTGATGAGGCTGCGCTCCACTCCCAGCAGCAAGCTGGAGGGCCAAGGCCAGCTACACTGTATCAGGA
 AGTGGACGAGGCCATTACACAGCTTGTGCGCCTCTCAAACCTGCACGTGCAGCAGCAAGAGCAGCGCAG
 TGCCTGCGGCGACTCCAGCAGGTGTTGCACTGGCTCTCGGGCCAGGGGAGGAGCAGCTGGCAAGCTTTG
 CTATGCCTGGGGACCTTGTCTGCCCTGCAGGAGACAGAGCTGCGATTCCGTGCTTTCAGCGCTGAGGT
 CCAGGAGCGCCTGGCCAGGCACGGGAGGCCCTGGCTCTGGAGGAGAATGCCACCTCCAGAAGGTGCTG
 GATATCTTTGAACAGCGCTGGAGCAGGTTGAGAGTGGCTCCATCGGGCCCTGCGGCTACAGCGCTTCT
 TCCAGCAGGCACATGAATGGGTGGATGAGGGCTTTGCTCGGCTGGCAGGAGCTGGGCCGGTTCGGGAGGC
 TGTGCTGGCTGCACTGGCCCTGCGGCGGGCCCCAGAGCCAGTGCCGGCACCTTCCAGGAGATGCGGGCC
 CTGGCCCTGGACCTGGGAGCCAGCAGCCCTGCGAGAATGGGGCCGCTGCCAGGCCCGCTGCCAAGAGC
 TAGAGAGGAGGATCCAGCAACACGTGGGAGAGGAGGCGAGCCACGGGGTACCGACGACGGCGGGCAGA
 CGGTGCCAGCAGTGGAGGGGCCAGTGGGGGCCCGCAGCCCTCGCCAGCCTCAGCTCCTTGCTGCTC
 CCCAGCAGCCCTGGGCCACGGCCAGCCCATCCCATTGCTCCCTGGCCCCATGTGGAGAGGACTATGAGG
 AAGAGGGCCCTGAGCTGGCTCCAGAAGCAGAGGGCAGGCCCAAGAGCTGTGCTGATCCGAGGCCCTGGA
 GGTCACACGACTGAGGTGGTAGACAGGACGTGCTCACCACGGGAACACGTGCTGCTGGGCCGGCTAGG
 GGGCCAGACGGACCCTGGGGAGTAGGCACCCCCGGATGGAGCGCAAGCGAAGCATCAGTGCCACGACGC
 GGCTGGTGTCTGAGCTGATTGCCCTGTGAACAAGATTACGTGGCCACCTTGAGTGAGCCAGTGCCACCCCC
 TGGGCCTGAGCTGACGCTGAACCTCGGGGCACCTGGGCTGCTGCCCTGAGTGCCCGGGAAGGCTTCGC
 AGCTTCCACCGGACACACTTTCTGCGGGAGCTTCAAGGCTGCGCCACCCACCCCTACGCATTGGGGCT
 GCTTCCTTCGCCACGGGACCACTTTCAGCCTTATGCACAGTACGTGAAGCACCGACACAACTGGAGAA
 TGGTCTGGCTGCGCTCAGTCCCTTAAGCAAGGGCTCCATGGAGGCTGGCCCTTACCTGCCCGAGCCCTG
 CAGCAGCCTCTGGAACAGCTGACTCGGTATGGGCGGCTCCTGGAGGAGCTCCTGAGGGAAGCTGGGCCTG
 AGCTCAGTTCTGAGTGCCGGGCCCTTGGGGCTGCTGTACAGCTGCTCCGGAACAAGAGGCCCGTGGCAG
 AGACCTGCTGGCCGTGGAGGCGGTGCGTGGCTGTGAGATAGATCTGAAGGAGCAGGGACAGCTCTTGAT
 CGAGACCCCTTCACTGTCTCTGTGGCCGAAAGAAGTGCCCTTCGCCATGTCTTTCTCTTCGAGCATCTCC
 TCCTGTTCAAGCAAGCTCAAGGGCCCTGAAGGGGGTCAAGAGATGTTTGTTCACAGCAGGCCTTTAAGAC
 TGCTGATATGGGGCTGACAGAAAACATCGGGGACAGCGGACTCTGCTTTGAGTTGTGTTTCGGCGCGCG
 CGTGACGAGAGGCATACACTCTGCAGGCAACCTCACCAGAGATCAAACTCAAGTGGACAAGTTCTATTG
 CCCAGCTGCTGTGGAGACAGGCAGCCCAACAAGGAGCTCCGAGTGCAGCAGATGGTGTCCATGGGCAT
 TGGGAATAAACCTTCTGGACATCAAGGCCCTTGGGGAGCGGACGCTGAGTGCCCTGCTCACTGGAAGA
 GCCCCAGAAACACTTGACTCTTCTGGAGATGTGTCCCAGGACCAAGAAACAGCCCCAGCCTGCAACCCC
 CCCACCTGGGAGCAGCACTCCACCTGGCCAGTCGAGGGATCTTAGGGCTATCCCAGCAGAGTCATGC
 TCGAGCCCTGAGTGACCCACACGCCTCTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239495 representing NM_001278530
 Red=Cloning site Green=Tags(s)

MPKPLQKVLADPRLTALQRDGGAILMRLRSTPSSKLEGQGPATLYQEVDIAHQLVRLSNLHVQQQEQRQ
 CLRRLLQQVLQWLSGPGEEQLASFAMPGDTLSALQETELRFRASAEVQERLAQAREALALEENATSQKVL
 DIFEQRLEQVESGLHRALRLQRFFQQAHEWVDEGFARLAGAGPGREAVLAALALRRPEPSAGTFQEMRA
 LALDLGSPAALREWGRCQARCQELERRIQQHVGEESPRGYRRRRADGASSGGAQWGPSPSPSSLLLL
 PSSPGPRPAPSHCSLAPCGEDYEEEGPELAPEAEGRPPRAVLIRGLEVTSTEVDRTCSPREHVLLGRAR
 GPDGPWGVGTPRMERKRSISAQQRLVSELIACEQDYVATLSEPVPPPPELTPELRGTWAAALSARERLR
 SFHRTHFLRELQGCATHPLRIGACFLRHGDQFSLYAQYVYKHRHKLLENLAALSPLSKGSMEAGPYLPRAL
 QQPLEQLTRYGRILLEELLREAGPELSSECRALGAAVQLLREQEARGRDLLAVEAVRGCEIDLKEQGQLLH
 RDPFTVICGRKKCLRHVFLFEHLLLFSLKKGPEGGSEMFVYKQAFKTAADMGLTENIGDSGLCFELWFRRR
 RAREAYTLQATSPEIKLKWTSIAQLLWRQAAHNKELRVQQMVMGIGNKPFIDIKALGERTLSALLTGR
 APETLDSSGDVSPGPRNSPSLQPPHPGSSTPTLASRGILGLSRQSHARALSDPTTPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001278530

ORF Size: 2271 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001278530.2](#)

RefSeq Size: 5637 bp

RefSeq ORF: 2274 bp

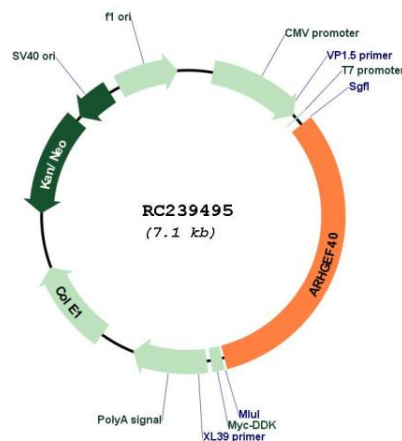
Locus ID: 55701

Cytogenetics: 14q11.2

MW: 84.2 kDa

Gene Summary: This gene encodes a protein similar to guanosine nucleotide exchange factors for Rho GTPases. The encoded protein contains in its C-terminus a GEF domain involved in exchange activity and a pleckstrin homology domain. Alternatively spliced transcripts that encode different proteins have been described. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC239495