

Product datasheet for **RC209135**

SERGEF (NM_012139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERGEF (NM_012139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SERGEF
Synonyms:	DELGEF; Gnefr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC209135 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAGCGCGAGCCAGCGCCTCGGAGGCCGCCCGCGCGCGCGCTCTTCGCTGGGGTGCAATA
 GCTATGGGCAACTTGGCTCGGCCATAAGGAAGATGTGCTGTTGCCCCAGCAACTGAATGACTTCTGTAA
 ACCCAGGAGTGTCAAGGAGATCACAGGAGGAGGGGCGCACTCTGCAGTTGTACAGATGGAGGAGACCTC
 TTTGTTGTGGCCTGAACAAAGATGGGCAACTGGGGCTTGGTCACACAGAGGATATCCCATATTTTACCC
 CCTGCAATCCCTCTTTGGCTGTCCATCCAACAGGTGGCTGTGGTGGGATTTTACGATTATGCTCAC
 AGAAAATGGTCAAGTTCTATCATGTGGATCCAACCTTTGGCCAGTTAGGAGTTCTCATGGACCTCGA
 AGATGTGTGGTCCCCAGGCCATTGAGCTCCATAAAGAGAAGTTGTTTGTATTGCTGCTGGACTGAGGC
 ATGCAGTAGCTGTACAGCGAGTGGCATCGTGTCCAGTGGGGGACTGGTTTGGCATCATGTGGACGACG
 GTTGTGCCCTGGCAGACTCTTCCATTGTTTTTACAGCAAAGGAACCAAGCAGAGTGACAGGTCTAGAG
 AATTCTAAAGCAATGTGTGTTCTTGTGCTCAGACCACTCAGCTTCATTAACAGATGCAGGAGAGGTGT
 ATGTTTGGGAAGCAACAAGCATGGGCAACTGGCTAATGAGGCTGCTTTCCTTCCTGTGCCCCAGAAAAT
 AGAAGCACATTGTTTCCAGAATGAAAAGGTCACTGCCATCTGGAGTGGATGGACACACCTGGTTGCTCAG
 ACAGAACTGGCAAGATGTTTACCTGGGCGGAGCAGACTATGGTCAGTAGGGAGGAAGTTGGAGACTT
 ATGAAGGCTGGAACTAGAAAAGCAAGATTCATTTCTCCCCTGTTCAAGACCACCGAACAGCATGCCTTC
 GTCTCCGATTGCTTAAGTGGAGCAACTGAGGTCTCTTGTGGCTCAGAGCATAATTTGGCAATAATTGGT
 GGAGTGTGTTACTCTTGGGGCTGGAATGAGCATGGCATGTGCGGAGATGGCACTGAAGCCAACGTCTGGG
 CCCCAGCCGGTGCAGGCTCTGCTGTATCGTCAGGACTCCTTGTGGGCTGTGGGGCTGGCCACTCCTT
 GGCCCTCTGCCAGCTGCCAGCTCACCTGCATTGGTCCAGGACCCCAAGGTCACCTACCTTTCCCCAGAT
 GCCATCGAGGACACTGAATCTCAGAAAGCCATGGACAAAGAGAGAACTGGAAGGAAAGACAATCAGAAA
 CTTCAACCCAAAGCCAATCTGACTGGTCCAGAAATGGGGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209135 protein sequence
 Red=Cloning site Green=Tags(s)

MEREPSASEAAPAAALFAWGANSYQLGLGHKEDVLLPQQLNDFCKPRSVRRITGGGGHSAVVTGGDL
 FVCGLNKDGQLGLGHTEIPYFTPCKSLFGCPIQQVACGWDFITMLTENGQVLSGNSNFGQLGVPHGPR
 RCVVPQAIELHKEKVVCIAAGLRHAVAATASGIVFQWGTGLASCGRRRLCPGQTLPLFFTAKEPSRVTGLE
 NSKAMCVLAGSDHSASLTDAGEVYVWGSNKHGQLANEAFLPVPQKIEAHCFQNEKVTAIWSGWTHLVAQ
 TETGKMFTWGRADYQQLGRKLETYEGWKLEKQDSFLPCSRPPNSMPSSPHCLTGATEVSCGSEHNLAIIIG
 GVCYSWGWNEHGMCGDGTANVWAPKPVQALLSSSGLLVGCGAGHSLALCQLPAHPALVQDPKVITYLSPD
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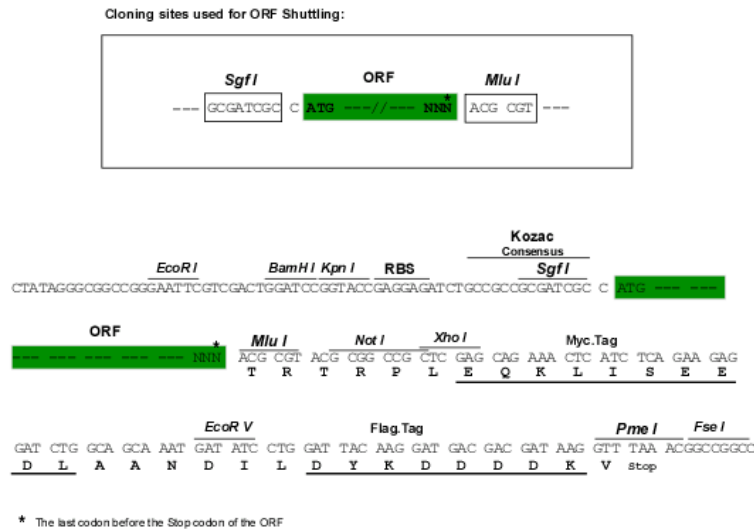
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6070_e11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_012139

ORF Size: 1374 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_012139.4](#)

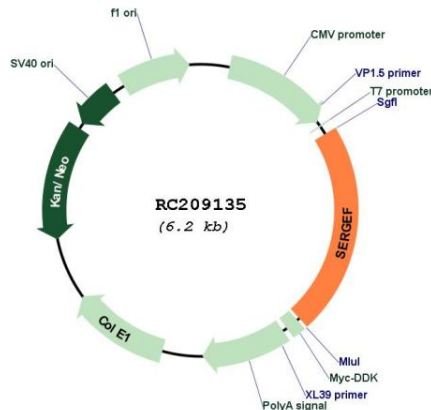
RefSeq Size: 1582 bp

RefSeq ORF: 1377 bp

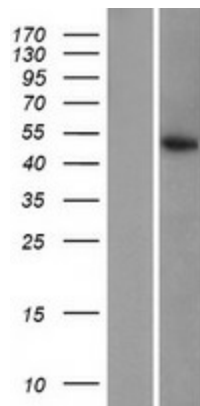
Locus ID: 26297

UniProt ID:	<u>Q9UGK8</u>
Cytogenetics:	11p15.1
Domains:	RCC1
MW:	49 kDa
Gene Summary:	Probable guanine nucleotide exchange factor (GEF), which may be involved in the secretion process.[UniProtKB/Swiss-Prot Function]

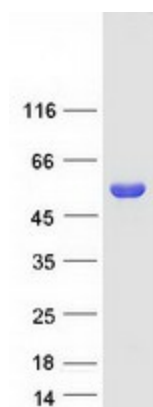
Product images:



Circular map for RC209135



Western blot validation of overexpression lysate (Cat# [LY402154]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209135 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SERGEF protein (Cat# [TP309135]). The protein was produced from HEK293T cells transfected with SERGEF cDNA clone (Cat# RC209135) using MegaTran 2.0 (Cat# [TT210002]).