

Product datasheet for **RC216581**

ALS2CL (NM_147129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CL (NM_147129) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALS2CL
Synonyms:	RN49018
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216581 representing NM_147129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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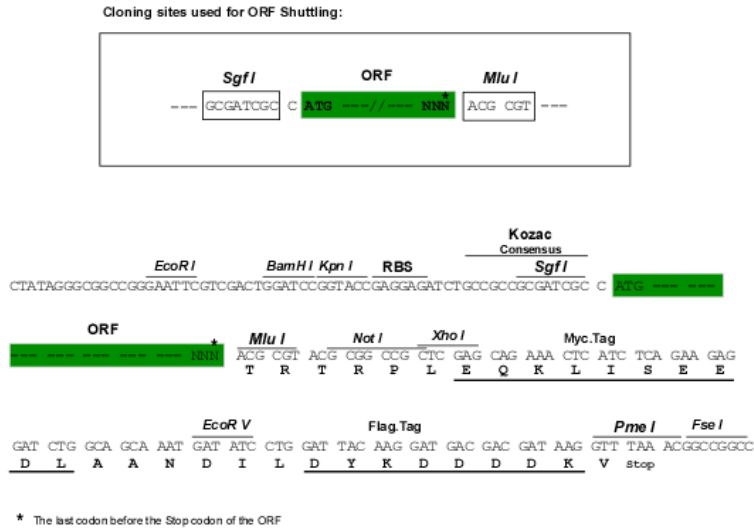
Protein Sequence: >RC216581 representing NM_147129
 Red=Cloning site Green=Tags(s)

MCNPEEAALLRLEEVSATLAHVNSLVLPPLAAPPDSDPWGRECLRLQLLHKSSQQLWEVTEESLHS
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 SSEGSV GASL GQALHQPLAHHVQYVLLLLSLGDTIGEHHPTRELVVNAVTLFGNLQSFMKQELDQAVAT
 QALWHTLRGRLRDVLC TPAHRL LQDSQDVPVTVAPLRAERVLLFDDALVLLQGHNVHTFDLKL VVWDPGQ
 DGCTFHLLTPEEEFSFC AKDSQQA VVWQKVTWAVHQALHGKDFPVLGAGLEPSQPPDCRCAEYTFQAE
 GRLCQATYEGEWCRGRPHGKGT LKWPDGRNHVGNFCQGLEHGFIRLLPQASEDKFCYKCHWREGSMCG
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 QRHGPGVMVTQAGVYQGT FQADKTVGPGILLSEDDSLYEGTFRDL TLMGKGKVTFPNGFTLEGSFGSG
 AGRGLHTQGVLDTAALPPDPSSTCKRQLG V GAFPVESRWQGVYSPFRDFVCAGCPRDLQEA LLGFDVQSS
 RELRRSQDYLSCERTHPEDSVGSMEDI L EELLQHREPKALQLYLRKALSNLHPLGKLLRTLMLTFQATY
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 ELFTLYLLLHEREDSFYSGIANLSLFPDTQLLEFLDVQKHLWPLKDLTLTSNQRYSLV RDKCFLSATEC
 LQKIMTTVDPREKLEVLERTYGEIEGT VSRVLGREYKLPMDLLPLL IYVVSRRARIQHLGAEIHLIRDMM
 DPNHTGGLYDFLLTALESCYEHIQKEDMRLHRLPGHWSRELW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

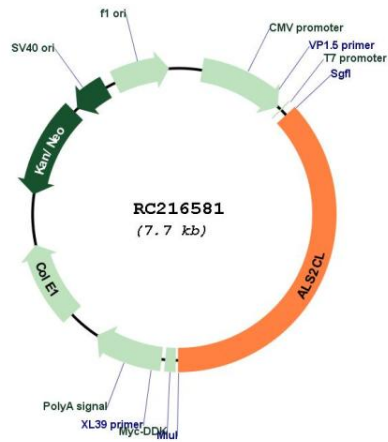


ACCN: NM_147129

ORF Size: 2859 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:	<ol style="list-style-type: none"> 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_147129.5
RefSeq Size:	4938 bp
RefSeq ORF:	2862 bp
Locus ID:	259173
UniProt ID:	Q60I27
Cytogenetics:	3p21.31
Domains:	VPS9, MORN
Protein Families:	Druggable Genome
MW:	107.7 kDa
Gene Summary:	Acts as a guanine nucleotide exchange factor (GEF) for Rab5 GTPase. Regulates the ALS2-mediated endosome dynamics.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216581