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Product datasheet for RC207177

ALS2CR3 (TRAK2) (NM_015049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR3 (TRAK2) (NM_015049) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALS2CR3
Synonyms:	ALS2CR3; CALS-C; GRIF-1; GRIF1; MILT2; OIP98
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC207177 representing NM_015049
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCAATCCCAGAATGCAATTTTTACATCACCAACAGGTGAAGAAAACCTCATGAATAGCAATCACA
GAGACTCGGAGAGCATCACTGATGTCTGCTCCAATGAGGATCTCCCTGAAGTTGAGCTGGTGAGTCTGCT
AGAAGAACAACTACCACAGTATAGGCTAAAAGTAGACACTCTCTTTCTATATGAAAATCAAGACTGGACT
CAGTCTCCACACCAGCGGCAGCATGCATCTGATGCTCTCTCTCCAGTCCTTGCTGAAGAGACTTTCCGTT
ACATGATTCTAGGCACAGACAGGGTGGAGCAGATGACCAAAACTTACAATGACATCGACATGGTTACACA
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TAAAGACAGAAACTGTTACCTATGAAGAAAAGGAACAACAGCTTGTCAGCGACTGTGTTAAAGAACTTCG
TGAAACAAATGCTCAGATGTCCAGAATGACTGAAGAATTGTCAGGGAAGAGTGATGAGCTGGTTCGATAC
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CTGAAGGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207177 representing NM_015049
Red=Cloning site Green=Tags(s)

MSQSQNAIFTSPTGEENLMNSNHRDSESITDVCSNEDLPEVELVSLLEEQLPQYRLKVDTLFLYENQDWT
QSPHQRQHASDALSPVLAEETFRYMILGTDRVEQMTKTYNDIDMVTHLLAERDRDLELAARIGQALLKRN
HILSEQNESLEEQLGQAFDQVNQLQHELCKKDELLRIVSIASEESETDSSCSTPLRFNESFSLSQGLLQL
EMLQEKLKELEEENMALRSKACHIKTETVTYEEKEQQLVSDCVKELRETNAQMSRMTEELSGKSDELVRY
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RSRSGPTAHLYFSQSYGAFTGESLAAEIEGTMRKKLSLDEESSLFKQKAQQKRVFDTVRIANDTRGRSIS
FPALLPIPGSNRSSVIMTAKPFESGLQQTEDKSLLNQGSSSEEVAGSSQKMGQPGPSGDSDLATALHRLS
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LAIPSTPPNSPSHSPCPSPLPFEPRVHLSENFLASRPAETFLQEMYGLRHSRNPPDVGQLKMNLVDRLKR
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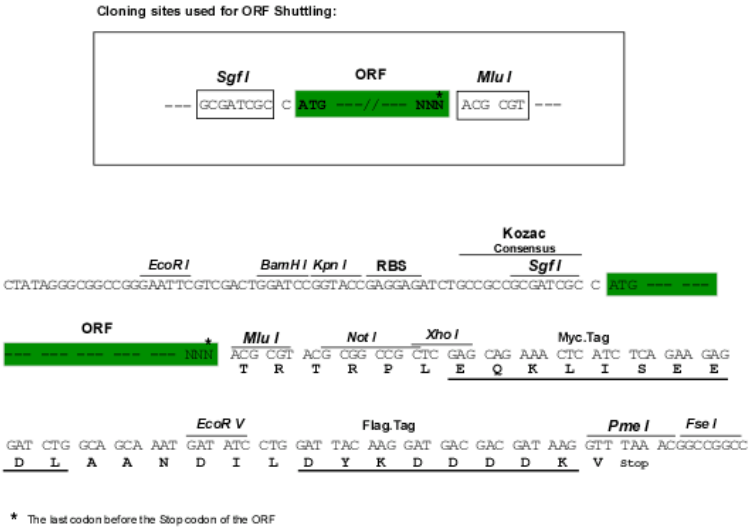
LKED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4506_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

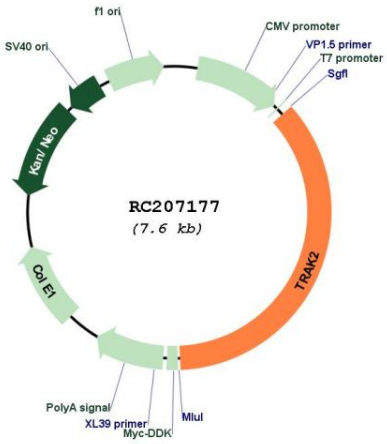


ACCN: NM_015049

ORF Size: 2742 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_015049.3
RefSeq Size:	6470 bp
RefSeq ORF:	2745 bp
Locus ID:	66008
UniProt ID:	O60296
Cytogenetics:	2q33.1
Domains:	HAP1_N
Protein Families:	Druggable Genome
MW:	101.2 kDa
Gene Summary:	May regulate endosome-to-lysosome trafficking of membrane cargo, including EGFR. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207177