

## Product datasheet for **RG207177**

### **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:	TurboGFP
Symbol:	ALS2CR3
Synonyms:	ALS2CR3; CALS-C; GRIF-1; GRIF1; MILT2; OIP98
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG207177 representing NM\_015049  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTCAATCCCAGAATGCAATTTTTACATCACCAACAGGTGAAGAAAACCTCATGAATAGCAATCACA  
 GAGACTCGGAGAGCATCACTGATGTCTGCTCCAATGAGGATCTCCCTGAAGTTGAGCTGGTGAAGTCTGCT  
 AGAAGAACAACCTACCACAGTATAGGCTAAAAGTAGACACTCTCTTTCTATATGAAAATCAAGACTGGACT  
 CAGTCTCCACACCAGCGGCAGCATGCATCTGATGCTCTCTCCAGTCTTGCTGAAGAGACTTTCCGTT  
 ACATGATTCTAGGCACAGACAGGTTGGAGCAGATGACCAAACTTACAATGACATCGACATGGTTACACA  
 TCTCTGGCAGAGAGGGATCGTATCTGGAACCTGCTGCTCGAATTGGACAAGCTCTCTAAAGCGGAAC  
 CATATCTTATCTGAGCAGAACGAATCCCTGGAGGCAATTGGGACAAGCCTTTGATCAAGTTAATCAGC  
 TGCAGCATGAGCTATGCAAGAAAGATGAGTTACTTCAATCGTCTCCATTGCTTCTGAAGAAAGTAAAC  
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 CTCCCAGAAGATGGGCCAACAGGACCCTCAGGAGATAGTGATTGGCTACAGCACTGCATCGCCTTAGC  
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 CCAGTCAGAGATCACAGACCTCAGCAGTCCAGTTGCCTTCGAGGTTTTATGCCAGAAAAATTACAATT  
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 CTTGAGACACTCCCGAACCCCTCTGATGTTGGCCAGTTGAAGATGAACTTAGTGACAGGCTGAAGAGA  
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 GTCCTCAAAAACAGATTCTGCTGTTTATTTAAATTCAGGTAGCAGTTTATTAGGTGGACTAAGGAGGAA  
 TCAGAGTCTTCCAGTCATAATGGGTAGCTTTGCTGCCCGAGTTGCACATCTCACCCAAAATGGGTGTC  
 CTGAAGGAGGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG207177 representing NM\_015049  
 Red=Cloning site Green=Tags(s)

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MSQSQNAIFTSPTEENLMSNHRDSESIITDVCNSNEDLPEVELVSLLEEQLPQYRLKVDTLFLYENQDWT
QSPHQHQHASDALSPVLAETFRYMILGTDREVMKTYNDIDMVTHLLAERDRDLELAARIGQALLKRN
HILSEQNESLEEQLGQAFDQVNLQHELCKKDELLRIVSIASEESETDSSCSTPLRFNFSLSQGLLQL
EMLQEKLKELEENMALRSKACHIKTETVTYEEKEQQLVSDCVKELRETNAQMSRMTEELSGKSDELVRY
QEELSSLLSQIVDLQHKLKEHVIEKEELKHLQASKDAQRQLTMELHELQDRNMECLGMLHESQEEIKEL
RSRSGPTAHL YFSQSYGAFTGESLAAEIEGTMRKLSLDEESSLFKQAKQKRVFDTVRIANDTRGRSIS
FPALLPIPGSNRSSVIMTAKPFESGLQQTEDKSLLNQGSSEEVAGSSQKMGQPGSPGSDSLATALHRLS
LRRQNYLSEKQFFAEWQRKIQLADQKEGVSVCVPTESLASLCTTQSEITDLSSASCLRGFMPEKLQI
VKPLEGSQTL YHWQQLAQP NLG I LDQRPGVITKGFTQLPGDAIYHISDLEEDDEEGITFVQVQPLEVEE
KLSTSKPVTGIFLPPITSAGGPVTVATASPGKCLSCTNSTFTFTTCRILHPSDITQVTPSSGFPSLSCGS
SGSSSSNTAVNSPALSYRLSIGESITNRRDSTTTF SSTMSLAKLLQERGISAKVYHSP ISENPLQLPKS
LAIPSTPPNSPSHSPCPSPLPFEPVHLSENFLASRPAETFLQEMYGLRHSRNPDPVQGLKMNLDRLKR
LGIARVYKNPGAQENGRQAEI GPQKPD SAVYLSNGSSLLGGLRRNQSLPVI MGSFAAPVCTSSPKMGV
LKED
  
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TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

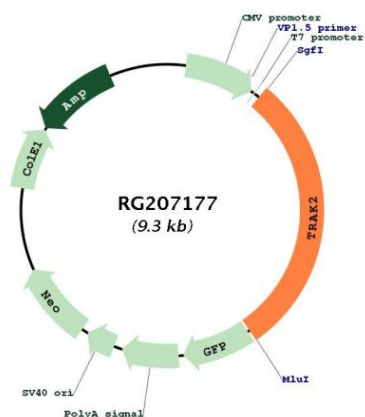
**Cloning Scheme:**



**ACCN:** NM\_015049

<b>ORF Size:</b>	2742 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015049.1</a> , <a href="#">NP_055864.1</a>
<b>RefSeq Size:</b>	6470 bp
<b>RefSeq ORF:</b>	2745 bp
<b>Locus ID:</b>	66008
<b>UniProt ID:</b>	<a href="#">O60296</a>
<b>Cytogenetics:</b>	2q33.1
<b>Domains:</b>	HAP1_N
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	May regulate endosome-to-lysosome trafficking of membrane cargo, including EGFR. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207177