

Product datasheet for **SC112629**

ALS2CR3 (TRAK2) (NM_015049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR3 (TRAK2) (NM_015049) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALS2CR3
Synonyms:	ALS2CR3; CALS-C; GRIF-1; GRIF1; MILT2; OIP98
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015049, the custom clone sequence may differ by one or more nucleotides

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ATGAGTCAATCCCAGAATGCAATTTTTACATCACCAACAGGTGAAGAAAACCTCATGAATAGCAATCACA
GAGACTCGGAGAGCATCACTGATGTCTGCTCCAATGAGGATCTCCCTGAAGTTGAGCTGGTGAAGTCTGCT
AGAAGAACAACACTACCACAGTATAGGCTAAAAGTAGACACTCTCTTCTATATGAAAAACAAGACTGGACT
CAGTCTCCACACCAGCGGCAGCATGCATCTGATGCTCTCTCTCCAGTCCCTTGCTGAAGAGACTTTCCGTT
ACATGATTCTAGGCACAGACAGGGTGGAGCAGATGACCAAACTTACAATGACATCGACATGGTTACACA
TCTCTGGCAGAGAGGGATCGTGATCTGGAACCTGCTGCTCGAATTGGACAAGCTCTCTTAAAGCGGAAC
CATGTCTTATCTGAGCAGAACGAATCCCTGGAGGAGCAATTGGGACAAGCCTTTGATCAAGTTAATCAGC
TGCAGCATGAGCTATGCAAGAAAGATGAGTTACTTCAATCGTCTCCATTGCTTGAAGAAAGTAAAC
TGATTCCAGCTGTTCTACACCTCTCGGTTCAATGAGTCTTTAGCTTATCTCAAGGGTTGCTGCAGTTG
GAAATGCTGCAAGAAAAGCTCAAGGAAGTGAAGAAAGAGAATATGGCTCTTCGATCCAAGGCTTGCACA
TAAAGACAGAAAAGTACCTATGAAGAAAAGGAACAACAGCTTGTGAGGACTGTGTTAAGAAGCTTCCG
TGAACAAATGCTCAGATGTCAGAAATGACTGAAGAAATGTCAGGGAAGAGTGATGAGCTGATTCGATAC
CAAGAAGAGCTTTCTCTCTTTTGTACAGATTGTAGACCTTCAGCACAACTTAAAGAACATGTGATTG
AGAAGGAAGAACTAAAACCTTCACTGCAAGCTTCCAAAGATGCCAACGGCAACTGACAATGGAGCTGCA
CGAGTTACAAGACAGGAATATGGAGTGTCTAGGAATGTTACATGAATCCCAAGAAGAAATAAAGGAAGCT
CGTAGTAGATCTGGCCCTACTGCTCATCTACTTCTCCCAATCATATGGAGCTTTTACTGGGGAATCTT
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TTCCCAGCTCTGTTACCCATCCAGGCTCCAACCGTTCAAGTGCATCATGACAGCAAAACCTTTTGAGT
CTGGTCTTCAGCAAAACAGAGGACAAATCACTCCTGAACCAGGGGAGCAGCTCAGAGGAGGTTGCAGGGAG
CTCCCAGAAGATGGGCCAACAGGACCCTCAGGAGATAGTGATTTGGCTACAGCACTGCATCGCCTTAGC
TTGCGTCGACAAAACATTTAAGTGAGAAGCAGTTCTTTGCTGAAGAATGGCAGCGGAAGATCCAGGTTT
TGGCAGACCAGAAGGAAGGAGTTAGTGGCTGTGTACCCCGACAGAGAGCCTTGCCTCTCTGCAACCAC
CCAGTCAGAGATCACAGACCTCAGCAGTGCCAGTTGCCTTCGAGGTTTTATGCCAGAAAAATTACAAATT
GTCAGCCCTTGAAGGATCACAACTCTGTATCACTGGCAGCAGCTTGTCAACCAAACTTGGGAACCA
TCCTTGATCCACGACCAGGTGTCATTACTAAAGGCTTTACCCAGTTGCCGGGGATGCTATTTATCACAT
CTCAGATTTAGAAGAGGATGAAGAGGAGGTTACTTTTCAGGTTGAGCAACCTCTTGAAGTGGAAAGAG
AAACTTTCAACATCCAAGCCAGTAACAGGGATCTTCTGCCACCCATTACTTCAGCAGGTGGACCAGTTA
CAGTTGCAACCGCAACCCAGGAAAGTGCTGTGCTGCACAAAACCAACATTCACCTTCCACCACCTGTAG
AATATTACATCCCTCTGACATCACTCAGGTTACCCCCAGCTCTGGGTTCCCTTCAATTATCTGTGGAAGT
AGCGGTAGCAGTTCATCCAACACGGCTGTGAATTCCTGCTGCTTGCCTATAGACTCAGCATTGGTGAGT
CCATCACAACCGACGAGATTCCACTACAACCTCAGTAGCACCATGAGCTTGGCCAAAACCTTCTACAAGA
GCGAGGCATCTCTGCCAAAGTGTACCACAGCCCAATTTAGAGAACCCCTCCAGCCTCTCCCTAAATCC
CTGGCTATCCCTTCCACACCACCAAAATTCACCATCTCACTCACCTTGCCTTCTCCTTTACCTTTGAGC
CTCGAGTGCATCTCTGAAAAATTTTTGGCCTCTCGACCAGCTGAGACATTCCTCAGGAGATGTATGG
CTTGAGACCCTCCCGAACCCCTCTGATGTTGGCCAGTTGAAGATGAACCTAGTGACAGCTGAAGAGA
CTGGGATAGCCAGAGTGGTCAAGAACCCTGGTGCCTCAAGAGAATGGAAGATGCCAGGAGGCAGAAATTG
GTCCTCAAAAACAGATTCTGCTGTTTATTTAAATTCAGGTAGCAGTTTATTAGTGGAAGTAAAGGAGAA
TCAGAGTCTTCCAGTCATAATGGGTAGCTTTGCTGCCCCAGTTTGACATCTCACCCAAAATGGGTGTC
CTGAAGGAGGACTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015049 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCGGGCGGTTGCTGGCAGTG
 GGAGCAGCGGCAGCAGCTTCGGCTGCTGCTTTCAGGCTGCCGCTGCATTAGGGGCTTCT
 GAGGAAGCGCGGGCGGACGACAGAGGATGCCGAACCACTCCAGTCATGACTGTCCAAAGT
 ATGATAATCACATGAGAGTGCTCGTTGCTACGGATGTCATTTGACTCATCAGAGAAAATC
 TGTCTAAAAGAAAATATCCATGTGACCAAAATCCATTTTCAATATTGAATGGCTTGATGGAT
 TTCCTTTACTCTGATTCATACCAAGCTGTCCTTCTCAACCAAGCAAGAAAGGATCCTG
 CATGAGTCAATCCAGAATGCAATTTTTACATCACCAACAGGTGAAGAAAACCTCATGAA
 TAGCAATCACAGAGACTCGGAGAGCATCACTGATGTCTGCTCCAATGAGGATCTCCCTGA
 AGTTGAGCTGGTGAAGTCTGCTAGAAGAACAACCTACCACAGTATAGGCTAAAAGTAGACAC
 TCTCTTTCTATATGANAATCAAGACTGGACTCAGTCTCCACACCAGCGGCAGCATGCATC
 TGATGCTCTCTCCAGTCTTGTGAAGAGACTTTCCGTTACATGATTCTANGCACAGA
 CAGGGTGGAGCAGATGACCCAACTTACAATGACATCGACATGGTTACACATCTNCTGGC
 AGAGAGGGATCGTGATCTGGGACTCGTCTCGAATTGGACCAGCTCTNCTTAAGCCGGA
 CCCATGTCTTATCTGAGCAGAACGAATCCCTGNAGGAGCATATGGGACCAGCCTTTNGAT
 CAGTAATCANCTGCCCATGAGCTATGCAGGAAAGATGAGTACTTTCAATCGTCTCCATT
 GCTCTGAAAGAAGGAAACTGATCCAACCTGTCTAACCCCTCCGGTCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015049 unedited
 TTAGCTATGGACCCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTGGAGGT
 TGTATAAAAATACAAATTTAAAAATGAACTTTTATTAATCATAAATACAAAATAATTGA
 GTGGTATTTGGGCTCCCAGGGCTCAAAGGCCTGAAAACAGAAAGGAAAATAGGAGTCTC
 CACCTGTGATTCAATGAAAAGATGAAACTCCTAATTTTGCTAATGCTGCGAGCATACCA
 TTTGATGGATACATAATTTAACCAGATATTAACAGGGGAAAACATATAAGCCATCTCACTA
 TTGTCTCAGTAATAGACTGAGCTTACCCACCAACCCCTCAGAACGGCTTTCTATAAGCA
 ATAAAACCTGCTCCTTTTCTTCCCATCCTTCTAACCTGGGTTCTCTGCTTTATGCTT
 ACCAGAAGTAAATGTGCCAGCAAGTTCAGTATCTCTGTATGTTTTAGTATTACTGAATTT
 ATTTGTATTCACTTTTTATGTTCAAGACAAGAAAACCACTGAAGGAGTATATTAACC
 TTTCTTTTCTCCCTCTGAACACTCATGGCCATTCAATTTATACTTTCAATTTGCCCGACT
 TCCTCCATTAGGGCTCATCCCAATTTTATTTCCATTCTCCATTCCCCCTTTCACATTCA
 CAACCCTTGCAACATTCTTTTCTCTCAAGTCAGACCAGACCACATGTTTCAGTGCAT
 ATCTATCCTTCATGTGCTAACTTGATAAAAAGGTCAGTTAACTGCTGAACCTCAGTCCTT
 CTTCAGGACACCCATTTGGGGTGAAGATGNTGCAACTGGNGCAGCANAGCTACCCATTA
 TGACTGGNAGACTCTGATTCCTCCTTAGTCCACCTATAAACTGCTACCTGAATTNAANTA
 ACAGCAGAATCTGGTTTTGAGGACCNATTNCTGNCTNCTGGCATCTTTCATTCTCTTGG
 NCACANGA

Restriction Sites:

NotI-NotI

ACCN:

NM_015049

Insert Size:

4000 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](#)

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_015049.1](#), [NP_055864.1](#)

RefSeq Size: 6470 bp

RefSeq ORF: 2745 bp

Locus ID: 66008

UniProt ID: [O60296](#)

Cytogenetics: 2q33.1

Domains: HAP1_N

Protein Families: Druggable Genome

Gene Summary: May regulate endosome-to-lysosome trafficking of membrane cargo, including EGFR. [UniProtKB/Swiss-Prot Function]