

## Product datasheet for **SC112871**

### ALS2CR1 (NIF3L1) (NM\_021824) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR1 (NIF3L1) (NM_021824) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALS2CR1
Synonyms:	ALS2CR1; CALS-7; MDS015
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112871 sequence for NM_021824 edited (data generated by NextGen Sequencing)

```
ATGGATTTGAAGGCTCTCCTTTCTCCTTGAATGACTTTGCATCCCTCTCGTTTGCTGAG
AGTTGGGACAATGTTGGATTACTGGTGGAAACCAAGCCCACCACATACTGTAATACACTC
TTCTGACCAATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAAAGAAGGAGAGC
CTCATTCTCTCTACCATCCGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACA
TGGAAAGGAGCGCCTGGTATCCGGGCTCTGGAGAACAGAGTCGGTATCTACTCTCCTCAT
ACAGCCTATGATGCTGCGCCCCAGGGCGTCAACAAGCTGGTTGGCTAAAGGGCTTGGAGCT
TGTACCTCCAGGCCATACATCCTTCAAAGCTCCCACTACCCTACAGAGGGAAACCAC
CGAGTAGAATTCAACGTTAACTACACCCAAGACCTGGACAAAAGTCATGTCTGCAGTGAAA
GGAATTGACGGTGTCTGTCACTTCTTTTCTGCTAGGACTGGTAATGAGGAACAACA
CGGATTAATCTGAATTGTACTCAGAAGGCTTGTATGCAGGTGGTAGATTTCTTTCCCGG
AACAAACAACCTTATCAGAAGACGGAATTTCTGTCACTGGAGAAGCCTTTGCTTCTACAT
ACTGGAATGGGACGGTTATGCACACTGGATGAATCTGTCTCCCTGGCAACCATGATTGAT
CGAATAAAAAGACACCTAAAATCTCATATTCGCTTAGCCCTTGGGGTGGGAGAAC
TTAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTGCTGGTTCTGGGAGCAGCGTTCTGCAG
GGTGTGAGGCTGACCTTACCTCACAGGTGAGATGTCCCATCATGATATTTGGATGCT
GCTTCCAAGGAATAAATGTCATCCTCTGTGAACACAGCAACTGAACGAGGCTTTCTT
TCTGACCTTCGAGATATGCTGGATTCTCACTTGGAGAATAAGATAAATATTATCCTATCA
GAGACTGACAGGGACCCTTTCAGGTGGTATAA
```

Clone variation with respect to NM\_021824.3  
890 c=>t



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021824 unedited  
 NNCGTCGGAATTTGTATACGACTCCTATAGGGCGGCCGCGATTCCGGCACGAGGGCGATTT  
 AAAAACCCGCGAGTGTAGTTGTGACCTTCGCGGTAGGTGCCGGTTGGGGCCGGCTGTGAT  
 TGTTATCTTGGTCTGCAGAGGACAGCAGAAGAGGAGATTGGGTGAGAAAAGTGCCTGC  
 CGCACCAGAGCACAGCGCACTAGTGGGACAGGGTCTGACTCAGACTTAACTGGCTGTG  
 TCTCGTGGTTTTTCACTGTCTGGAAAAGGCCTGAAGTGGCACTGAAATGAGGCATAGAT  
 GAGGTAACGTCGAGGGAGCGGTTTGCAGGTTGCAAAGGGGCCCTACTGATGCTGCTTAAT  
 AGTAAACAGTGTACTCTAGGACGGGAGTTGTTTCCAGCTTTACGTGTAATCTCGCGA  
 TATTGTGGCCTGGGCACTATTTCCATTAAGGAGGAAAAGTGCACAGGATAAGTCATTTACC  
 TGCTGTTGCACAGCTCTGGCTCTAGGATTCAGGCTGGCTTCAGAGTCGGTCTCTTAACC  
 GCCATACTATGTTGCCTTCTGTTNNCCTGTTGACTGTGGCCATGTATNTNNGGCAGT  
 TTCCTCATCTGTAAACAGTAAATAACTCAAAACCTGCATGATGGCACTAAAGGGTTTCACT  
 TTCGAGCTTGCCAGATGGTAGAAATGCTGGAGAAATGGAGTCTTATGAGGACCTTAGAA  
 GATCTTTCAAGGCCGNACGCAGTGGCTCACCCCTGTAATCCCGTCTCTTTGGAGGCC  
 GAGGCAGGGTTGAATCACTTGGGGCCCGAAGTTTGGAGCCAGCTGGNGCACGTGGCGA  
 ATCCCCGTCTCTGCTAGAAACAAATAGCCGGGGGGGGGGGGTTAGCGCCTGGATCC  
 CACTGTACAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021824 unedited  
 GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGTAAAGTAAACAGATTTTATTC  
 AATCTTTCTAGAGTTTATAATGAACATTTGTTATTTAATATGGTAGTTATATTACAGTT  
 TTACCTTACGAGCGATAGAACATTTGGTGAATAAGATTAACAAACCGGAAATGATGATAC  
 CCTCGAAGACACTCTCTGGAAGCACACCAGTCCCCTGACTCATGTTACAAATTTAAGTT  
 GGCTCCAGCTGATTTGTAGAATGTGTTATCCTGATGTTTCTGCAATTATACCACCTGAA  
 GAGGGTCCCTGTCACTCTGATAGGATAATTTATCTTATTCTCCAAGTGAGAATCCA  
 GCATATCTCGAAGGTGAGAAAGAAAGCCTCGTTCAAGTGTGCTGGGTTACCACAGGATG  
 ACATTTATTCCTTGGGAAGCAGCATCCAAAATATTATGACGGGACATCCCCCCCCGCGAT  
 GTAAAGGGCAGCCTTAACACCCTGGAGAACGCTGCTCCAGAACCAGCACACAGGGCCCC  
 GACTTTGACTTGCCACTTCCGGCTCTGCCCCCCCAGGGCTACCGAATATGAGATCGGGC  
 AGGCGCCGCTCTATTCCGACCCCGGGTCCCGCCGGNACGAACCAGCCCGGGCGGTAC  
 CGTGCCTTGCCACTGACGACCGAAGGCTCGGCCGGGACGATTAGCAGCGTGCACGCGTG  
 AGCGCCGCGGGAGAAGTATTAATTGTCGGCTGGCCGGTCCCCCAGGTGGTCCCACCGA  
 GGAGCCGCGTCCGCCATCGAATCGCGGGACGAGGGAAGGGCTGGCGCGGAGTGCAGCC  
 GCGGCGGGCGGCAGAGTACTATTATAGTGTCCCCGCCCCCGGGTCCCAGCGCGCCCCC  
 GCCCCCGTCAAGTGCGCCGGGCCGCCACGCTGTGTGTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021824

**Insert Size:**

3970 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_021824.2](#), [NP\\_068596.2](#)

**RefSeq Size:** 1606 bp

**RefSeq ORF:** 1053 bp

**Locus ID:** 60491

**UniProt ID:** [Q9GZT8](#)

**Cytogenetics:** 2q33.1

**Domains:** NIF3, DUF34

**Gene Summary:** May function as a transcriptional corepressor through its interaction with COPS2, negatively regulating the expression of genes involved in neuronal differentiation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and uses a downstream in-frame translation initiation codon, compared to variant 1. The resulting isoform (2) is shorter at the N-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform.