

## Product datasheet for **SC113432**

### ALS2CR2 (STRADB) (NM\_018571) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR2 (STRADB) (NM_018571) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALS2CR2
Synonyms:	ALS2CR2; CALS-21; ILPIP; ILPIPA; PAPK; PRO1038
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018571, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCTTTGGATTGCTTCTGCACTTCAAGAACAAGTTGAATCACTCAGACCTGAAAAACAGTCTG
AAACCAGTATCCATCAATACTTGGTTGATGAGCCAACCCCTTCTGGTCACGTCCATCCACTAGAGCCAG
TGAAGTACTATGTTCCACCAACGTTTCTCACTATGAGCTCCAAGTAGAAATAGGAAGAGGATTTGACAAC
TTGACTTCTGTCCATCTTGACGGCATACTCCACAGGAACACTGGTAACTATAAAAAATTACAAACTG
AAAAGTCAATGAAGAACGCCTGAAAGCTTACAGAAAGCCGTGATTCTATCCCACTTTTCCGGCATCC
CAATATTACAACATTATTGGACAGTTTCTACTGTTGGCAGCTGGCTTTGGGTTATTTCTCCATTTATGGCC
TATGGTTCAGCAAGTCAACTCTTGAGGACCTATTTTCTGAAGGAATGAGTGAACTTTAATAAGAAACA
TTCTCTTTGGAGCCGTGAGAGGGTTGAACTATCTGCACCAAAATGGCTGTATTCACAGGAGTATTAAGC
CAGCCATATCCTCATTTCTGGTATGGCCTAGTGACCCTCTCTGGCCTGTCCCATCTGCATAGTTTGGTT
AAGCATGGACAGAGGCATAGGGCTGTGTATGATTTCCACAGTTCAGCACATCAGTGCAGCCGTGGCTGA
GTCCAGAACTACTGAGACAGGATTTACATGGGTATAATGTGAAGTCAGATATTTACAGTGTGGGATTAC
AGCATGTGAATTAGCCAGTGGGCAGGTGCCTTCCAGGACATGCATAGAAGTCAAGTGTGTACAGAAA
CTGAAAGTCTCCTTATAGCCATTGGATATCAGTATTTCCCTCAATCAGAATCCAGAATGAAAAATT
CCCAGTCAGGTGTAGACTCTGGGATTGGAGAAAGTGTGCTTGTCTCCAGTGGAACTCACACAGTAAATAG
TGACCGATTACACACACCATCCTCAAAAACCTTCTCCTGCCTCTTTAGCTTGGTACAGCTCTGTTTG
CAACAAGATCCTGAGAAAAGGCCATCAGCAAGCAGTTTATTGTCCATGTTTTCTCAAACAGATGAAAG
AAGAAAAGCCAGGATTCATACTTCACTGTTGCCTCCTGCTTATAACAAGCCATCAATATCATTGCCTCC
AGTGTACCTTGGACTGAGCCAGAATGTGATTTTCTGATGAAAAAGACTCATACTGGGAATTCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018571 unedited</p> <pre> AGGAATTTGGTATACGACTTCACTATAGGGCGGCCGCAATTCGCACGAGGGGCTCTGGC GCCCGCCCTGTCCGACCGCTGGCAGCCTGAAGAGAGTCGCTGGCCGTGGTCGCCGCTA GGTAGGATATATCTGCATCTTGAAGGAAGATAAAACAAAAGCCTTCTTTGGAATAGATG GATTTTTGTCACCTTCTGTGTGAACTAAAGTGATTCAATGTCTCTTTGGATTGCTTCTG CACTTCAAGAACAAGTTGAATCACTCAGACCTGAAAAACAGTCTGAAACCAGTATCCA TCAATACTTGGTTGATGAGCCAACCCCTTCTGGTCACGTCCATCCACTAGAGCCAGTGA AGTACTATGTTCCACCAACGTTTCTCACTATGAGCTCCAAGTAGAAATAGGAAGAGATT TGACAACCTGACTTCTGTCCATCTTGCACGGCATACTCCACGGGAACACTGGTAACTAT AAAAATACAAATCTGAAAACTGCAATGAAGAACGCCTGAAAGCTTTACAGAAAGCCGT GATTCTATCCCACTTTTTCCGGCATCCCAATATTACAACCTATTGGACAGTTTTCACTGT TGGCAGCTGGCTTTGGTTATTTCTCCATTTATGGCTATGGTTCAGCAAGTCAACTCTT GAGGACCTATTTTCTGAAGGAATGAGTAAACTTTAATAAGAAACATTCTTTGGAGC CGTGAGAGGGTTGAACTATCTGCACAAAATGGCTGTATTCACAGGAGTATTAAGCCAG CCATATCCTCATTCTGGTGATGGCCTAGTGACCTCTCTGGCCTTCCATCTGCATATT TGGTTAAGCATGACAGAGCATAGGGCTGGGATGATTTCCACAGTTCAGCAATCAGGGCAG CCGGGGCTGAATCCAAACTATGAGACAGGATTTATGGGTATAATNGGAAGTCAAATATT ACAGGGTGGGGATACAGCATGTGAATTACCAGGG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018571 unedited</p> <pre> NGGGTTACTCTGNNACCGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTCAA TTCAGTAAATCTTTATTGAGCTCCACGGGGTGGCTGAATTTAGGATCTATAATTTACAT AAGTAGGAAAGTGTACTTTAGCCCCCTTTTTTAAAAAAAAGCAAATTACAATTTCTGTA TATATTTCAAGTGAATCATTTAATGTGAGTGAGGCTCAGTTAGGTGTTACCATAAGTATT AACAGAAGAAAAAGGAAAGCACAAACATTTTCCCTCTACCAGAAAAGGGTCTGATGTAA GATAAACTAGCCTGTTGGTTTAAACAATAGCTCATTAAAAAGGCCAGAGAACTGGGAGAA GATGTACTTGGAAAGCACTGTCCTCTGAGGGCCATTCCCAAGGGCAGCAAAAATACTGAA AAAAATTAAGTGGCTCAAAAATTATATTGAGAGATAAAAAAGAGTTAGTCACAGCTTAGAA AAAAATCCAGAATAAATGACACTAGCTAGATTAGTAATCTGATGTTTCCTTGTCTATAG TACTCTGTGCGAAACAGAGGGACTACAACTGGTGCCCTTTGAACAGAGTGGTTTTAA TAATAGATTTCTCAGTGCACTCACTGATTTTCAAGTATAAATCTGGTATTTGTACTGAT AAATACAGAAGAAAAAGCAGCAAGGAGAAAGTGTCAAGTATATAGGACATAAAATGATTT GGCAGCCCTAGAATTCCCGTATGAGTCTTTTTTATCAGGAAAACACATTCTGGCTCAGTC CAGGGTACACCTGGAGCAATGATATTGATGGCTTGTATAAGCAGGAAGGCACAGTGAAA AGTTTGAATCCTGGCCTTCTTCTTCTCATCTGTTAAAGAACTAAAAAGGGCTGTTGATT ACATTTCAATTTATCAGNTTGTAGCAATAATAACTTTTAAGGATTAT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018571
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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\\_018571.4](#), [NP\\_061041.2](#)

**RefSeq Size:** 2300 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 55437

**UniProt ID:** [Q9C0K7](#)

**Cytogenetics:** 2q33.1

**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** This gene encodes a protein that belongs to the serine/threonine protein kinase STE20 subfamily. One of the active site residues in the protein kinase domain of this protein is altered, and it is thus a pseudokinase. This protein is a component of a complex involved in the activation of serine/threonine kinase 11, a master kinase that regulates cell polarity and energy-generating metabolism. This complex regulates the relocation of this kinase from the nucleus to the cytoplasm, and it is essential for G1 cell cycle arrest mediated by this kinase. The protein encoded by this gene can also interact with the X chromosome-linked inhibitor of apoptosis protein, and this interaction enhances the anti-apoptotic activity of this protein via the JNK1 signal transduction pathway. Two pseudogenes, located on chromosomes 1 and 7, have been found for this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]  
Transcript Variant: This variant (1) encodes the longer isoform (1).