

Product datasheet for RC203432

ALS2CR2 (STRADB) (NM_018571) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR2 (STRADB) (NM_018571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALS2CR2
Synonyms:	ALS2CR2; CALS-21; ILPIP; ILPIPA; PAPK; PRO1038
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203432 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCTTTGGATTGCTTCTGCACCTCAAGAACACAAGTTGAATCACTCAGACCTGAAAAACAGTCTG
AAACCAGTATCCATCAATACTTGGTTGATGAGCCAACCTTTCTGGTCACGTCCACTAGAGCCAG
TGAAGTACTATGTTCCACCAACGTTTCTCACTATGAGCTCCAAGTAGAAATAGGAAGAGGATTTGACAAC
TTGACTTCTGTCCATCTGCACGGCATACTCCACGGGAACACTGGAATAAAAAATTACAAATCTGG
AAAAGTGAATGAAGAAGCCTGAAAGCTTTACAGAAAGCCGTGATTCTATCCCACTTTTCCGGCATCC
CAATATTACAACCTATTGGACAGTTTTCACTGTTGGCAGCTGGCTTTGGGTATTCTCCATTTATGGCC
TATGGTTCAGCAAGTCAACTCTTGGAGCCTATTTTCTGAAGGAATGAGTGAACTTTAATAAGAAACA
TTCTCTTTGGAGCCGTGAGAGGGTTGAACTATCTGCACCAAAATGGCTGTATTCACAGGAGTATTAAGC
CAGCCATATCCTCATTCTGGTATGGCCTAGTGACCCTCTGGCCTTTCCCATCTGCATAGTTTGGTT
AAGCATGGACAGAGGCATAGGGCTGTGTATGATTTCCACAGTTCAGCACATCAGTGCAGCCGTGGCTGA
GTCCAGAACTACTGAGACAGGATTTACATGGGTATAATGTGAAGTCAGATATTTACAGTGTGGGATTAC
AGCATGTGAATTAGCCAGTGGCAGGTGCCTTTCCAGGACATGCATAGAAGTCAAGTGTGTTACAGAAA
CTGAAAGGTCCTCCTTATAGCCATTGGATATCAGTATTTCCCTCAATCAGAATCCAGAATGAAAAAT
CCAGTCAGGTGTAGACTCTGGGATTGGAGAAAGTGTGCTTGTCTCCAGTGGAACTCACACAGTAAATAG
TGACCGATTACACACACCATCCTCAAAAACCTTCTCTCCTGCCTTCTTTAGCTTGGTACAGCTCTGTTTG
CAACAAGATCCTGAGAAAAGCCATCAGCAAGCAGTATTATGTCCATGTTTTCTCAAACAGATGAAAAG
AAGAAAGCCAGGATTCATACTTTCACTGTTGCCTCCTGCTTATAACAAGCCATCAATATCATTGCCTCC
AGTGTACCTGGACTGAGCCAGAATGTGATTTTCTGATGAAAAAGACTCACTAGGGAATTC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203432 protein sequence
Red=Cloning site Green=Tags(s)

MSLLDCFCTSRTQVESLRPEKQSETSIHQYLVDEPTLSWSRPSTRASEVLCSTNVSHYELQVEIGRFDN
 LTSVHLARHTPTGTLVTIKITNLENCNEERLQKAVILSHFFRHPNITTYWTVFVGSWLWVISP
 FMA YGSASQLLRITYFPEGMSETLIRNILFGAVRGLNYLHQNGCIHRSIKASHILISGDGLVTL
 SGLSHLHSLV KHGQRHRAVYDFPQFSTSVQPWLSPELLRQDLHGYNVKS
 DIYSVGITACELASGQVPFQDMHRTQMLLQK LKGGPPYSPLDISIFPQSESRMKN
 SQSGVDSGIGESVLVSSGHTVNSDRLHTPSSKTFSPAFFSLVQLCL QDPEKRP
 SASSLLSHVFFKQMKESQDSILSLLPPAYNKPSISLPPVLPWTEPECDFDEKDSYWEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6152_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_018571

ORF Size: 1254 bp

OTI Disclaimer: 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_018571.3](#)

RefSeq Size: 2300 bp

RefSeq ORF: 1257 bp

Locus ID: 55437

UniProt ID: [Q9C0K7](#)

Cytogenetics: 2q33.1

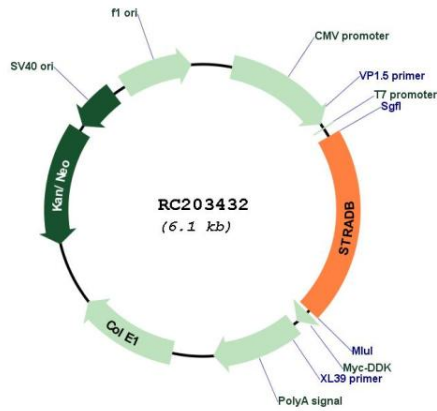
Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

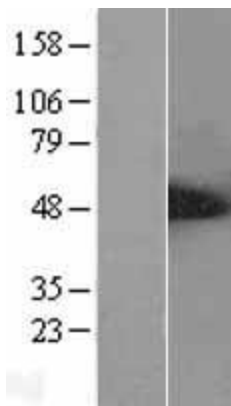
MW: 47 kDa

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]

Product images:



Circular map for RC203432



Western blot validation of overexpression lysate (Cat# [LY402696]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).