

Product datasheet for **RC207419**

ALS2CR8 (CARF) (NM_024744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ALS2CR8
Synonyms:	ALS2CR8; NYD-SP24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207419 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACAATCTAATGATTCATTAAGAGTCAACCATAATGACGGTGAAGAGTCAAAAACAGTGCTCAAG
TATTTGAGCATCTAATCTGTATGGACTCCAGGGATTCTTCCTTTGGACAAAATGATTCTCCTACAGTTTT
GCCCATCACTACTCGTGAAGCAAAATATCACTCATATCACAGAATATACCAGGGCCCCTGACTCAGACA
CAGACTCTTTCTGCAGAGCAATTCATCTAGTGGACCAAAATGGGCAGGCTATTCAATATGAACTTCAGT
CATTGGGGGAATCCAATGCACAAATGATGATCGTTGCCAGCCCAACAGAAAATGGACAGGTACTTCGTGT
AATTCCACCTACCCAGACAGGAATGGCACAAGTGATTATACCTCAGGGGCAACTTGTGGATGTGAATAGT
CCTCGGGATGTCCCTGAAGAGAAACCCAGTAACAGAACTTACCAACTGTAAGAGTGGATACTCTAGCAG
ACAATACCAGCAATTACATTCTTCCTCAAACATCCTTCCCATTTGCCAAAAAGTCAGTGACCGGAAT
GCTGGAAGAACCCCTTCTGGGCTCTTCAGCCACTTCTTCTAATACACCTATATGGGCTGCCGTCTT
AGGAGCTGTGAGAAAATTTGGAGATTATACCGTGGCTACTGTGTAAGTGAGACTGAATTAGAAAAGTGTC
TAACATTTCAAGCAGCAAAACACAGAGTGTCTGGGGACCCGTCAGTCTCCAAGCCAGCCAAGCCTGC
TACACGCTTGATGTGGAATCCAGTATGTTCCATATGATGGAATCCCATTGTGAATGCAGGGAGTAGA
GCTGTGGTAATGGAGTGTGAGTATGGGCCAAGAAGAAAGTTTCCAGTTAAAAAAGTCAGTGAGCAGG
AAAGCAGGTCTTGTGAGCTCTACAAAGCCACTTGTCCAGCTCGGATTTACATTAAGAAAGTACAGAAATT
TCCTGAATATAGAGTTCCTACAGACCCCAAAATGACAAGAAAATTATCAGAAATGGAGCAGGAGAAAGCT
TTTAACATGCTAAAGAAGAACTTGGTAGATGCTGGTGGTGTCTTAGGTGGTATGTACAGTTACCTACAC
AGCAAGCTCATCAGTATCATGAATTAGAGACTCCCTGCCTCACTTTGTACCTTCTCCTTTTCTGTGTC
TTCTCTTGAAGAAGAGGAACTGCAGTTAGAGATGAGAATTGTGATTACCTCACGTTTACATCCTCAA
GTAGCACAATAAGATTCAAGAATTAGTATCACAGGGAATAGAACAAGTGTATGCAGTAAGGAAACAGCTAA
GAAAATTTGTGGAAGGGAAGTGTCAAACCCGATGAGGTACCTGAAAGACATAATTTATCTTTGTTTCC
AACTGTAATGATATAAAAAATCACATCCATGAGGTACAGAAATCCTTGAGAAATGGAGATACGGTATAT
AACTCAGAGATTATTCAGCAACGCTTCAATGGACTACAGACAGTGGGAATATTCTCAAAGAGACCATGA
CAGTTACATTTGCAGAAGGAAATTCACCAGGAGAATCAATTACCACCAAAGTGGAACAAATCAGACCAG
GGGTCTTTGTCTCCTGAGCAACCCACTTGCTCTCCTCACTCTCCTCATTTCAGCCCAAAATATTTACA
CAACTACAGGGTTTGCAGTTACAACCAAGGTACACCTCTCCTGATGAATCACCAGCTGTGGTATCAGTAA
ATAACCAGCCGCTCTAGTCTTCCAGGACTTCTGGATACAATAGGAAGTGCTGAATGAATAAATTC
TCTACTGCTTGGTCAAAGTCATAGCCTTCAAAGAGATACATGCTTAACCCAAAACAATAGTACTGCCTCC
ACCATGGGTAACTTCCAGAACCAGATCAAAATCTAGTTGCAATGGACGAGCTGGTGAAGTTGGAGATG
TTGAGGATACAGGGAATCTGGAAGGAAGTTCATCGGATTCTGTTGGGAGATGTGCAGACTATTCCAAT
ACAGATTATAGACAACCACTCAGCTCTTATTGAAGAAAATCCAGAAAGTACCATTTCTGTGAGCCAAGTT
AAACAAGAACCAGAAAGAACAGCATTGTCTATGAAGCAAAAAAACTGTGGACTATAAGAAATTATCTG
CTACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207419 protein sequence
Red=Cloning site Green=Tags(s)

MEQSNDSL RVNHN DGEESK TSAQVFEHLICMDSRDS SFGQNDSP TVLPIT TREANN SLISQNI PGPLTQT
QTL SAEQFHLVDQNGQAIQYELQSLGESNAQMMIVASPTENGQVLRVIPPTQTGMAQV IIPQGQLVDVNS
PRDVPEEKSPNRNLP TVRVDTLADNTSNYILHPQTSFPLPKKSVTGMLEELLGPLQLSSNTPIWACRL
RSCEIGDSYRGYCVSETELESVLT FHKQQTQSVWGT RQSPSPAKPATRLMWKSQYVPYDGIPFVNAGSR
AVVMECQYGP RRKGFQLKKVSEQESRSCQLYKATCPARIYIKKVQKFPEYRVPTDPKIDKKIIRMEQEKA
FNMLKKNLVDAGGVL RWYVQLPTQQAHQYHELETPCLT LSPSPFPVSSLEEEETAVRDENCALPSRLHPQ
VAHKIQELVSQGIEQVYAVRKQLRK FVERELFKPDEVPERHNL SLFPTVNDIKNHIHEVQKSLRNGDTVY
NSEIIPATLQWTTDSGNILKETMTVTFAEGNSPGESITTKVETNQTRGSLSPEPTHLSSLS SFQPKIFT
QLQGLQLQPRYTS PDESPA VSVNNQPS SSPSGLLDTIGSAVMNNNSLLLGQSHSLQRDTCLTQNNSTAS
TMGNLPEPDQNLVAMDELVEVG DVEDTGNLEGT VHRILLGDVQTIPIQIIDNHSALIEENPESTISVSQV
KQEPKEPALSM EAKKTVDYKKLSAT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

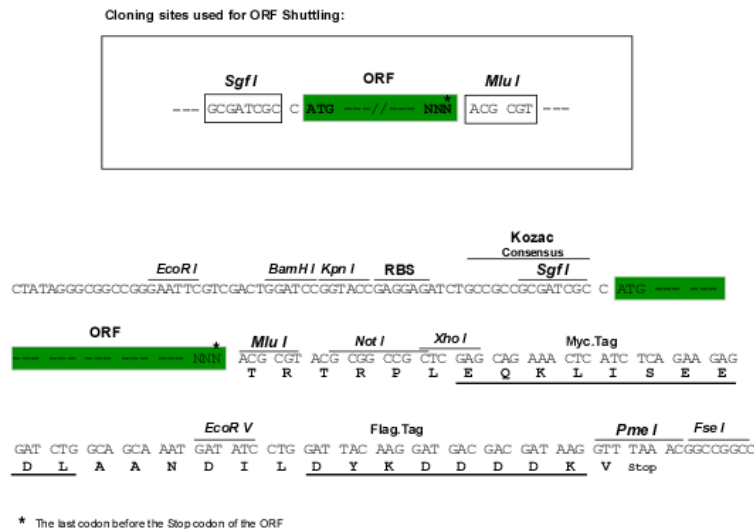
Chromatograms:

https://cdn.origene.com/chromatograms/mk6757_c12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_024744

ORF Size:

2175 bp

OTI Disclaimer:

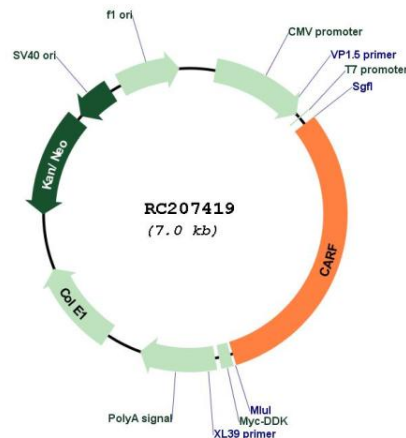
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024744.17
RefSeq Size:	6253 bp
RefSeq ORF:	2178 bp
Locus ID:	79800
UniProt ID:	Q8N187
Cytogenetics:	2q33.2
MW:	80.7 kDa
Gene Summary:	Acts as a transcriptional activator that mediates the calcium- and neuron-selective induction of BDNF exon III transcription. Binds to the consensus calcium-response element CaRE1 5'-CTATTCGAG-3' sequence.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207419