

Product datasheet for **RC239199**

ALS2CR8 (CARF) (NM_001282911) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALS2CR8 (CARF) (NM_001282911) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALS2CR8
Synonyms:	ALS2CR8; NYD-SP24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239199 representing NM_001282911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAACAATCTAATGATTCTAATAGAGTCAACCATAATGACGGTGAAGAGTCAAAAACCAAGTGCTCAAG
 TATTTGAGATGATCGTTGCCAGCCCAACAGAAAATGGACAGGTACTTCGTGTAATTCACCTACCCAGAC
 AGGAATGGCACAAGTGATTATACCTCAGGGGCAACTTGTGGATGTGAATAGTCCTCGGGATGTCCCTGAA
 GAGAAACCCAGTAACAGAACTTACCAACTGTAAGAGTGGATACTCTAGCAGACAATACCAGCAATTACA
 TTCTTCATCCTCAAACATCCTTCCATTGCCCAAAAAGTCAGTGACCGGAATGCTGGAAGAACCCTTCT
 GGGGCTCTTCAGCCACTTCTTCTAATACACCTATATGGGCTGCCGTCTTAGGAGCTGTGAGAAAATT
 GGAGATTCATACCGTGGCTACTGTGAAGTGAGACTGAATTAGAAAGTGCTAACATTTTACAAGCAGC
 AAACACAGAGTGTTGGGGACCCGTAGTCTCCAAGCCAGCCAAGCCTGTACACGCTTGATGTGGAA
 ATCCCAGTATGTTCCATATGATGGAATCCCATTTGTTAATGCAGGGAGTAGAGCTGTGGTAATGGAGTGT
 CAGTATGGGCCAAGAAGAAAAGGTTTCCAGTTAAAAAAGTCAGTGAGCAGGAAAGCAGGTCTTGTGAGC
 TCTACAAAGCCACTTGTCCAGCTCGGATTTACATTA AAAAGGTACAGAAGTTTCTGAATATAGAGTTCC
 TACAGACCCCAAAATTGACAAGAAAATTATCAGAAATGGAGCAGGAGAAAGCTTTTAACATGCTAAAGAAG
 AACTTGGTAGATGCTGGTGGTGTCTTAGGTGGTATGTACAGTTACCTACACAGCAAGCTCATCAGTATC
 ATGAATTAGAGACTCCCTGCCTCACTTTGTACCTTCTCCTTTTCTGTGCTTCTCTTGAAGAAGAGGA
 AACTGCAGTTAGAGATGAGAATTGTGCATTACCCTCACGTTTACATCCTCAAGTAGCACATAAGATTCAA
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 AACTGTTCAAACCCGATGAGGTACCTGAAAGACATAATTTATCTTTTTTCCAAGTGAATGATATAAA
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 GCAACGCTTCAATGGAAGTACAGACAGTGGGAATATTCTCAAAGAGACCATGACAGTTACATTTGCAGAAG
 GAAATTCACCAGGAGAATCAATTACCACCAAAGTGAAACAAATCAGACCAGGGGTTCTTTGTCTCCTGA
 GCCAACCACTTGTCTCCTCACTCTCCTCATTTAGCCCAAAATATTTACACAACCTACAGGGTTTGCAG
 TTACAACCAAGGTACACCTCTCCTGATGAATCACCAGCTGTGGTATCAGTAAATAACCAGCCGCTCTCTA
 GTCCTTCAGGACTTCTGGATACAATAGGAAGTGTGTAATGAATAATAATTCTCTACTGCTTGGTCAAAG
 TCATAGCCTTCAAAGAGATACATGCTTAACCCAAAACAATAGTACTGCCTCCACCATGGGTAACCTTCCA
 GAACCAGATCAAAATCTAGTTGCAATGGACGAGCTGGTAGAAGTTGGAGATGTTGAGGATACAGGGAATC
 TGGAAGGAAGTGTTCATCGGATTCTGTTGGGAGATGTGCAGACTATTCCAATACAGATTATAGACAACCA
 CTCAGCTCTTATTGAAGAAAATCCAGAAAGTACCATTTCTGTGAGCCAAGTTAAACAAGAACCAAGAA
 CCAGCATTGTCTATGGAAGCAAAAAAAGTGTGGACTATAAGAAATTATCTGCTACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239199 representing NM_001282911

Red=Cloning site Green=Tags(s)

MEQSNDSL RVNHNDGEEKSTSAQVFEMIVASPTENGQVL RVIPPTQTGMAQVIIPQQGLVDVNSPRD VPE
EKPSNRNLPTVRVDTLADNTSNYILHPQTSFPLPKKSVTGMLLEPLLGPLQLSSNTPIWACRLRSCKEK
GDSYRGYCVSETELESVLTFHKQQTQSVWGTRQSPSPAKPATRLMWKSQYVPYDGPVFNAGSRAVVMCE
QYGPRRKGFLKKVSEQESRSCQLYKATCPARIYIKKVKQFPEYRVPTDPKIDKKIIRMEQEKA FNMLKK
NLVDAGGVL R WYVQLPTQQAHQYHELET PCLTLSPSPFVSSLEEEETAVRDENCALPSRLHPQVAHKIQ
ELVSQGIEQVYAVRKQLRK FVERELFKPDEVPERHNL SFFPTVNDIKNHIHEVQKSLRNGD TVYNSEIIP
ATLQWTTDSGNILKETMTVTFAEGNSPGESI TTKVETNQTGRSLSPEPTHLLSSLSSFQPKIFTQLQGLQ
LQPRYTSPEDES PAVVSNNQPSSSPSGLLDTIGSAVMNNNSLLLQGSLSLQRDTC LTQNNSTASTMGNLP
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PAL SMEAKKTVDYKKLSAT

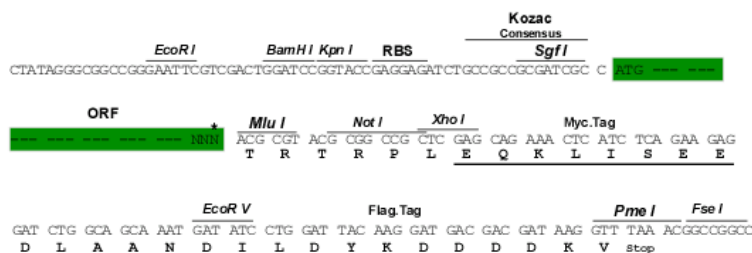
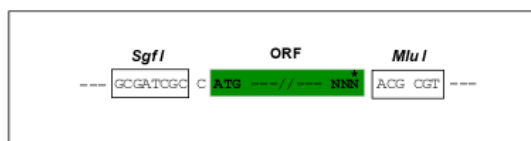
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001282911

ORF Size: 1947 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 001282911.2

RefSeq Size: 5209 bp

RefSeq ORF: 1950 bp

Locus ID: 79800

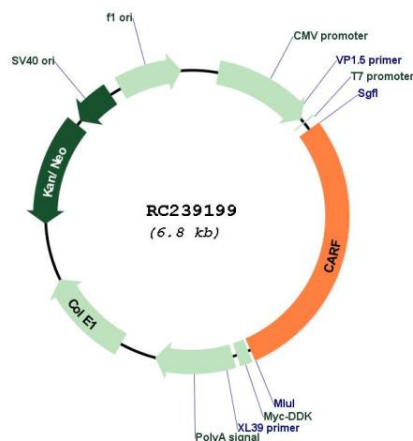
UniProt ID: [Q8N187](#)

Cytogenetics: 2q33.2

MW: 72.8 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'-CTATTTCGAG-3' sequence.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239199