

## Product datasheet for **MC228338**

### Carf (NM\_001285463) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Carf (NM_001285463) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Carf
Synonyms:	Als2cr8; ECBRC-FC1; ECBRC-FC2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228338 representing NM\_001285463  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCAATATCTCTGAAGAGAAACCCACTGGTGAAGAGCAGATGTTCTCGAAGACAGCACCAGCAATT  
 ACGGCCTTCGCTCACCAGCATCCCTCGTCTACCCAAAAAGGCAGGAGCCAGACTTGTTGAAGAACCTTT  
 GCTGGCTCCTCTCCAGCCACTTTCTTGTAAACACACCCATGTGGCCTGCCGTCTTAGGAGTTGTGAGAAA  
 ATTGGAGATTCCTACCGTGGCTACTGTGAAGTGAGACTGAATTAGAAAAGTGTCTAACTTTTACAAGC  
 AGCAAACACAGACTGTCTGGGACTCGCCAGTCTCCAAGCCCAGCCAAACCTGCCACACGCTTGATGTG  
 GAAGTCTCAGTATGTCCCATATGACGGAATCCCATTTGTCAATGCAGGAAGTTCGAGCTGTGGTAATGGAG  
 TGTCAGTATGGACCAAGGAGAAAAGTTTTTCAGTTAAAAAAAATCAGTGAGCAAGAAAGTAGGTCTGTG  
 ATCTCTATAAAGCTACTGTCCAGCCAGGATATACATTAAGGTTACAGAAATTTCTGAATATAGAGT  
 ACCTACAGACCCCAAAATGACAGGAAGATAATCAGACTGGAGCAGGAGAAAGCCTTCACATATGCTGAAG  
 AAGAACCTGATGGATGCTGGTGGTACTTCGATGGTATGTGCAGTTACCTACACAGCAAGCTCATCAGT  
 ATCATGAATCAGAGACTCCTGGTGTCCCTTTGTACCCGTCACCTTTTCTATGTCTCCTCTTGAAGAAGA  
 GGAAGCTATAGTCAGAGATGAGAACTGTGCGTTGCCCTCTCGTCTCCACCCGCAAGTAGCGCATAAGATT  
 CAGGAAGTAGTGTACAGGGAGTAGGACAAGTGTATGCAGTAAGGAAGCAGCTAAGAAAAATTTGGGAAA  
 GAGAACTGTTCAAACCTGATGAGATACCTGAAAGACATAATTTATCTTATTTTCCAAGTGAATGATAT  
 AAAAAATCATATCCATGAGGTACAGAAATCCTTGAGGACTGGAGATGTGGTATATAACTCAGAGATTATT  
 CCAGCAACGCTTCAGTGGACGACAGATAGTGGAAACATCCTCAGAGAGACTGTAACAGTTACATTTGCAG  
 AAGGAAATTTACTAGGAGAACCATTCCAGCAAAATGGGAACAAGTCAGACACAGACTGCTGTGTCTCC  
 AGAGCCACTTTCTTCAATTTCCACCCAAAATATTTACACACTTTTCAGGCTTTGAAGTTACAGCCAAGACTC  
 TCCTCTCTGATGGCTCACAAGCTTTGGTATCAGTAGATAGCCATGCATCCTCTAGTCTCCTGGCCTTG  
 TGGATACTGTAGGAAATGCTGAAGTGGATAACCACTCTGTACTGCTTGGTCAGAGTCAAAACCTGGGAC  
 AGATACATGCCTAACCAAGACAACAGCACCTCCTCCTCCACGGGCCACCTCCAGAATCAGTTCGGAAT  
 CCAGTTGCAGAGGATCAGCTGCTGGAAGGTGAAGATGTTGAGGATGCAGGGAATCCGGAAGGAAGTGTA  
 ATAGGACTCTGTTGGGAGATGTACAAACCGTTCCAATACAGATCATAGACAGCCGTCAGTCTGTTGA  
 AGAAAGTCTGTCTAAGAACCAAGTTAAACAAGAAACCAATGAGCCAACACTGTCTACAGAAGCAAAAAC  
 TTCCTGGACTGTAAAAAATATCTGCTACATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001285463
- Insert Size:** 1713 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001285463.1](#), [NP\\_001272392.1](#)

**RefSeq Size:** 5701 bp

**RefSeq ORF:** 1713 bp

**Locus ID:** 241066

**Cytogenetics:** 1 C2

**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 (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) has multiple differences compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at an alternate start codon compared to variant 1. The encoded protein (isoform 2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.