

## Product datasheet for **MC220538**

### Carf (NM\_139150) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Carf (NM_139150) 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:** >MC220538 representing NM\_139150  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCAGCGTCATTCCTTAGCGGGCAACTGTGACGATGGTGAAGTCAGAAAGAGAGGCTCAGGGAT  
 TCGAGCATCGGACCTGTATGGACTCTGGGATCCTTCCTTTGGGCAAAATGATCCCCCTACCATTTTGCC  
 CATTACTGCTCCTAAAACATATGATTCACTCACATCACAGGATATGCCAGAGACTGACTGACACACAG  
 GCCCTTCAAGAGCAATTTTCATCTTTTGGACAAAATGGGCAGCCTATTCAATATGATCTTCAGTCTT  
 TGGGAAATTTACTGCACAAATGACAGGGATGGAGCAAGTGGCCATACCTCAGGAGCCCTTTGCAGATGA  
 ACATAGCCCTCAAGATATCTCTGAAGAGAAACCCACTGGTGAAGAGCAGATGTTCTCGAAGACAGCACC  
 AGCAATTACGGCCTTCGCTCACCAGCATCCCTCGTGTACCCAAAAGGCAGGAGCCAGACTTGTGAAG  
 AACCTTTGCTGGCTCCTCCAGCCACTTCTTGTAAACACACCCATGTGGCCTGCCGTCTTAGGAGTTG  
 TGAGAAAATTGGAGATTCCTACCGTGGCTACTGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
 CACAAGCAGCAACACAGACTGTCTGGGTTACTGCCAGTCTCCAAGCCAGCCAAACCTGCCACAGCT  
 TGATGTGGAAGTCTCAGTATGTCCCATATGACGGAATCCCATTTGTCAATGCAGGAAGTCCGAGCTGTGGT  
 AATGGAGTGTGAGTATGGACCAAGGAGAAAAGTTCAGTTAAAAAATCAGTGAAGCAAGAAAGTAGG  
 TCTTGTCTCTATAAAGCTACTTGTCCAGCCAGGATATACATTAAGAAAGTACAGAAATTTCTGAAAT  
 ATAGAGTACCTACAGACCCCAATTCAGAGGAAGATAATCAGACTGGAGCAGGAGAAAGCCTTCACTAT  
 GCTGAAGAAGAACCTGATGGATGCTGGTGGTGTACTTCGATGGTATGTGCAGTTACCTACACAGCAAGCT  
 CATCAGTATCATGAATCAGAGACTCCTGGTGTCCCTTTGTACCGTACCTTTTCTATGTCTCCTCTTG  
 AAGAAGAGGAAGCTATAGTCAGAGATGAGAAGTGTGCGTTGCCCTCGTCTCCACCCGCAAGTAGCGCA  
 TAAGATTCAGGAAGTGTGTACAGGGAGTAGGACAAGTGTATGCAGTAAGGAAGCAGCTAAGAAAATTT  
 GTGAAAAGAGAAGTGTCAAACCTGATGAGATACCTGAAAGACATAATTTATCTTATTTTCCAAGTGTAA  
 ATGATATAAAAAATCATATCCATGAGGTACAGAAATCCTTGAGGACTGGAGATGTGGTATATAACTCAGA  
 GATTATTCAGCAACGCTTCAGTGGACGACAGATAGTGGGAACATCCTCAGAGAGACTGTAAACAGTTACA  
 TTTGCAGAAGGAAATTTACTAGGAGAACCGATTCCAGCAAAAATGGGAACAAGTCAGACACAGACTGCTG  
 TGTCTCCAGAGCCACTTTCTTCATTTCCACCCAAAATATTTACACTTTTTCAGGCTTTGAAGTTACAGCC  
 AAGACTCTCCTCTCTGATGGCTACAAGCTTTGGTATCAGTAGATAGCCATGCATCCTTAGTCTCCTCT  
 GGCCTTGTGGATACTGTAGGAAATGCTGAAGTGGATAACCACTCTGTACTGCTTGGTTCAGAGTCAAACC  
 CTGGGACAGATACATGCCTAACCAAGACAACAGCACCTCCTCCTCCACGGGCCACTCCAGAAATCAGT  
 TCCGAATCCAGTTGCAGAGGATCAGCTGCTGGAAGGTGAAGATGTTGAGGATGCAGGGAATCCGGAAGGA  
 AGTGTAAATAGGACTCTGTTGGGAGATGTACAAACCGTTCCAATACAGATCATAGACAGCCGTCAGTGC  
 TTGTTGAAGAAAGTCTGTCTAAGAACCAAGTTAAACAAGAAACCAATGAGCCAACACTGTCTACAGAAGC  
 AAAAATTTCTGGACTGTAAAAAATATCTGCTACATA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_139150

**Insert Size:** 2070 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).

<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_139150.5</a></u> , <u><a href="#">NP_631889.1</a></u>
<b>RefSeq Size:</b>	5574 bp
<b>RefSeq ORF:</b>	2070 bp
<b>Locus ID:</b>	241066
<b>UniProt ID:</b>	<u><a href="#">Q8VHI4</a></u>
<b>Cytogenetics:</b>	1 C2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>