

Product datasheet for **RN211455**

Carf (NM_001106915) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carf (NM_001106915) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Carf
Synonyms:	Als2cr8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN211455 representing NM_001106915
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTGCTTCTCCAAATGACCAGTGTCTCTGAAGAGAAGCCATTGGTGGGAGTTTCCAGCTGTAA
 GCACAGATGCTCTAGAAGACAGCGCCAGTAGCTACAGTCTTCACTCACAAGCATCCCTCGTGGGACCCAG
 AAAGTCAGGGACCAGAACTCTTGAAGAACCTTTGCTGGCCCTCTCCAGCCACTTCTTGTAAACACACCC
 ATGTGGGCTGCCGTCTTAGGAGTTGTGAGAAAATTGGAGATTCTACCGTGGCTACTGTGTAAGTGAGA
 CTGAATTAGAAAGCGTCCAACTTTTACAAGCAGCAAACACAGACTGTCTGGGGCACTCGCCAATCTCC
 AAGCCAGCCAAACCTGCCACACGCTTGTATGTGGAAGTCTCAGTATGTCCCCTATGACGGCATCCCGTTT
 GTCAATGCAGGAAGTCGAGCTTGTAAATGGAGTGTGAGTATGGACCAAGGAGAAAAGGTTTTCAGTTAA
 AAAAAATCAGCGAGCAAGAAAGTAGGTCTTGTCTCTCTACAAAGCTACTTGTCCAGCCAGGATATACAT
 TAAAAAGGTACAGAAATTTCTGACTATAGAGTACCTACTGACCCCCAGATTGATAGGAAGACAATCCGG
 ATGGAGCAGGAGAAAGCCTTCACTATGTGAAGAAGAACCCTGGTGGACCGGGCGGTGTCCCTTCGGTGGT
 ATGTGCAGTTACCTACGCAGCAAGCTCACCAGTATCATGAACCAGAGACTCCCGGTGTCCCTTTGTCAACC
 GTCACCTTTCCCTATGTCTCCTCTTGGGAAGAGGAGGCTATAATCAGAGATGAGAAGTGTGTGTTGCC
 TCTCGTCTCCACCCGCAAGTAGCGCATAAAGATCCAGGAGTTAGTGTCCAGGGAGTGGGGCAAGTGTATG
 CAGTGAGGAAGCAGCTAAGAAAAATTTGTGGAAAGAGAAGTGTCAAACCTGATGAGGTACCTGAAAGACA
 TAATTTATCTTTTTTCCAAGTAAATGATATCAAAAATCATATCCACGAGGTACAGAAATCCTTGCGAG
 ACTGGAGATGTGGTATATAACTCAGAGATTATCCAGCAACGCTTCAGTGGACTACAGATAGTGGAAATA
 TCCTCAGAGAGACTGTAACAGTTACATTTGCAGAAGGAAATTTACTAAAAGAGCCGATTACCAGCAAAAT
 GGGGACAAGTCAGACACAAACTTCTTTGTCTCCAGAACCCTTCCCTTGCTCTCCCACTTTCTTCAATTT
 CAGCCCAAAATATTTACACATTTACAGGCTTTGAAGTTGCAGCCAAGACTCTCCTCTCCTGATGGATCCC
 AGGCTTTGGTGTGAGTAAATAGCCATCCATCCTCCAGTCCCCCGGCCTTGATACGGCAGGAAATGCTGA
 AGCCAATAACCACTCTCTACTGCTTGGCCAGAGTCAAACCTTGGAACAGACACTTGCTACCCGAGAAC
 AGCAGCACGGCTCTCCCATGGGAGTCTCCGGAGTCAAGTTCAGAACCTAGTTGCAGTGGATCAGCTGG
 TGGGAGGTGAGGATGCTGAGGATGCTGGGAATCTGGAAGGAAATGTAAGAGGACTCTGTGGGAGATGC
 ACACACCATTCCAATACACATCCTAGACAGCCATCCAGCTCTTGTGAAGAAGATACTCTGTCCATGAAC
 CAAGTTAAACAAGAACCCTAATGAGCCAACACTGTCTACAGAAGCAAGACTTTGCTGGACTGTAAAAACG
 TGCTGTACATA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001106915
- Insert Size:** 1764 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).
- 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_001106915.1](#), [NP_001100385.1](#)

RefSeq Size: 2781 bp

RefSeq ORF: 1764 bp

Locus ID: 301446

UniProt ID: [D4A7U2](#)

Cytogenetics: 9q32

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]