

## Product datasheet for **SC112033**

### **ALS2CR8 (CARF) (NM\_024744) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALS2CR8 (CARF) (NM_024744) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARF
Synonyms:	ALS2CR8; NYD-SP24
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC112033 sequence for NM\_024744 edited (data generated by NextGen Sequencing)

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ATGGAACAATCTAATGATTCAATTAAGAGTCAACCATAATGACGGTGAAGAGTCAAAAACC
AGTGCTCAAGTATTTGAGCATCTAATCTGTATGGACTCCAGGGATTCTTCCTTTGGACAA
AATGATTCTCCTACAGTTTTGCCATCACTACTCGTGAAGCAAATAATCACTCATATCA
CAGAATATACCAGGGCCCTGACTCAGACACAGACTCTTTCTGCAGAGCAATTCATCTA
GTGGACCAAAAATGGGCAGGCTATTCAATATGAACCTCAGTCATTGGGGGAATCCAATGCA
CAAATGATGATCGTTGCCAGCCCAACAGAAAATGGACAGGTACTTCGTGTAATCCACCT
ACCCAGACAGGAATGGCACAAGTGATTATACCTCAGGGGCAACTTGTGGATGTGAATAGT
CCTCGGGATGTCCCTGAAGAGAAAACCCAGTAACAGAAACTTACCAACTGTAAGAGTGGAT
ACTCTAGCAGACAATACCAGCAATTACATTCTTCATCCTCAAACATCCTTCCCATTGCC
AAAAAGTCAGTGACCGGAATGCTGGAAGAACCCTTCTGGGGCCTTTCAGCCACTTTCT
TCTAATACACCTATATGGGCCTGCCGTCTTAGGAGCTGTGAGAAAATTGGAGATTCATAC
CGTGGCTACTGTGTAAGTGAGACTGAATTAGAAAGTGCCTAACATTTCAAGCAGCAA
ACACAGAGTGTGGGGACCCGTCAGTCTCAAGCCCAGCCAAGCCTGTACACGCTTG
ATGTGGAATCCAGTATGTTCCATATGATGGAATCCCATTTGTTAATGCAGGGAGTAGA
GCTGTGGTAATGGAGTGTGAGTATGGGCCAAGAAGAAAAGGTTTCCAGTTAAAAAAGTC
AGTGAGCAGGAAAGCAGGTCTTGTGAGCTCTACAAAGCCACTTGTCCAGCTCGGATTTAC
ATTA AAAAGGTACAGAAGTTTCCGTAATATAGAGTTTCTACAGACCCCAAAATTGACAAG
AAAATTATCAGAATGGAGCAGGAGAAAGCTTTTAAACATGCTAAAGAAGAACTTGGTAGAT
GCTGGTGGTGTCTTAGTGGTATGTACAGTTACCTACACAGCAAGCTCATCAGTATCAT
GAATTAGAGACTCCCTGCCTCACTTTGTACCTTCTCCTTTTCTGTGTCTTCTTTGAA
GAAGAGGAAACTGCAGTTAGAGATGAGAATTGTGCATTACCCTCACGTTTACATCCTCAA
GTAGCACATAAGATTCAAGAATTAGTATCACAGGGAATAGAACAAGTGTATGCAGTAAGG
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AAATCCTTGAGAAATGGAGATACGGTATATAACTCAGAGATTATCCAGCAACGTTCAA
TGGACTACAGACAGTGGGAATATTCTCAAAGAGACCATGACAGTTACATTTGCAGAAGGA
AATTCACCAGGAGAATCAATTACCACAAAGTGGAAACAATCAGACCAGGGTTCTTTG
TCTCCTGAGCCAACCCACTTGTCTCCTCACTCTCCTCATTTAGCCCAAAATATTTACA
CAACTACAGGGTTTGCAGTTACAACCAAGGTACACCTCTCCTGATGAATCACCAGCTGTG
GTATCAGTAAATAACCAGCCGCTCTAGTCCTCAGGACTTCTGGATACAATAGGAAGT
GCTGTAATGAATAATAATTCTCTACTGCTTGGTCAAAGTCATAGCCTTCAAAGAGATACA
TGCTTAACCCAAAACAATAGTACTGCCTCCACCATGGGTAACTTCCAGAACAGATCAA
AATCTAGTTGCAATGGACGAGCTGGTAGAAGTTGGAGATGTTGAGGATACAGGGAATCTG
GAAGGAACTGTTTCATCGGATTCTGTTGGGAGATGTGCAGACTATTCCAATACAGATTATA
GACAACCACTCAGCTCTTATTGAAGAAAATCCAGAAAAGTACCATTTCTGTGAGCCAAGTT
AAACAAGAACCCAAAGAACCAGCATTGTCTATGGAAGCAAAAAAACTGTGGACTATAAG
AAATTATCTGCTACATAA
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Clone variation with respect to

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_024744 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGGCA CGAGGGCGCTGCGCATTATGCTGGTCTCCATGGCGGGCCTCGGAGCCAAGACGAGGCAT TCGCTTCAAGAGACAAGCAGTTTAGAATCAGGCAGAACTGGATTGCAAAATTTATGGGCA GACCGAGAAAATGCTGCTGTGAAGACCAATTAAGCTTTCACATAAATGAAGCTACAGC TATCATGATTTAGTGCCCCAAAAGGAAGAACTTCAGTGGACAAGAAAGGACATTTCTGG GGGTAGTAGAATGCTTGAGGCCTGGAATTTAAACCTGAGCCACTATCTGAAGCTATTA TAATAGAAGAAAATGGAATTGAATATGATGTCAGCATGGAACAATCTAATGATTCATTAA GAGTCAACCATAATGACGGTGAAGAGTCAAAAACCAAGTGTCAAGTATTTGAGCATCTAA TCTGTATGGACTCCAGGGATTCTTCTTTGGACAAAATGATTCTCCTACAGTTTTGCCCA TCACTACTCGTGAAGCAAATAATCACTCATATCACAGAATATACCAGGGNCCCCTGACT CAGACACAGACTTTTCTGCAGAGCAATCCATCTAGTGGACAAAATGGGCAGGCTATT CAATATGAACTTCAGTCATTGGGGGAAATCCATGCACAAATGATGATCGTTGCCAGCCCA ACAGAAAATGGACAGTACTTCGTGNTATTCCACCTACCCAGACAGGAATGGGCACAGTG ATTATACCTCAGNGNCCACTGTGGATGTGAATAGTCTCGGGATGTCCCTNNGAGAGAA CCCCAGTACAGAACTTACCCACTGTAGAGTGGATACTCTAGCAGACATACCAGCATTAC ATTCTTCTTCTCAACATCCTTCCATTGCCAAAAGTCATGAA
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_024744 unedited CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTGCTGTTGTTCTTTTCT GTTTTGTAATAACAAAATTGAATATTTCCAAGGATAAGTTAAGTAAACTATTTGTGTTT AGACTATATTACTGTGGATAAATTCAGAACAGCTTTTGAATACTGGCCTTATTAGATAA TCAAAGAGCATAAAAATTATACAAAATAAGAAGAGTAAAACATCTCTTAAGGAAGGTAA AATATGGAAGTGGCAACAATATATCAGTTTTAAATAAAAGCTTCTCATCAAAGTGGTCT TCAGTCCAATTATCTCAATGCCACGCTTTGACTATATTCACCTTCTTTCTAAGACATCA GAAGTCAACAGAGTTGTAATTTCTGAAAAGCTTCAATAATTTATGTAGCAGATAATTTCT TATAGTCCACAGTTTTTTTTGCTTCCATAGACAATGCTGGTCTTTGGGTTCTTTGTTTAA CTTGGCTCACAGAAATGGTACTTTCTGGATTTTCTTCAATAAGAGCTGAGTGGTTGTCTA TAATCTGTATTGGAATAGTCTGCACATCTCCCAACAGAATCCGATGAACAGTTCCTTCCA GATTCCTGTATCCTCAACATCTCCAATCTACCAGCTCGTCCATTGCAACTAGATTTT GATCTGGTTCTGGAAGGTTACCCATGGTGGAGGCAGTACTATTGTTTTGGGTTAAGCATG TATCTCTTTGAGGCTATGACTTTGACCAAGCAGTAAAGAAATATTATTATTACAGCACT TCCTATTGGATCCAAAAGTCTGAAAGACTANAGGACGGCTGGTTATTTACTGATACACA GCTGGGGATTCATAGAAAGGGGCACCTGGGTGACTGCAACCCTGTAATTGGTAAATATT TTGGCTGAATGAAGAAAGGAGAAAGCATTGGGTTGCTAAGAAAA
<b>Restriction Sites:</b>	ECORI-NOT
<b>ACCN:</b>	NM_024744
<b>Insert Size:</b>	2940 bp
<b>OTI Disclaimer:</b>	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>RefSeq:</b>	<a href="#">NM_024744.12</a> , <a href="#">NP_079020.12</a>
<b>RefSeq Size:</b>	3438 bp
<b>RefSeq ORF:</b>	2157 bp
<b>Locus ID:</b>	79800

UniProt ID: [Q8N187](#), [A0A024R405](#)

**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]

Transcript Variant: This variant (2) has an alternate splice site and an additional exon in the 5' UTR, compared to variant 1. Variants 1, 2, 6 and 7 encode the same 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.