

## Product datasheet for **SC328629**

### **C2CD6 (NM\_001168216) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C2CD6 (NM_001168216) Human Untagged Clone
Tag:	Tag Free
Symbol:	C2CD6
Synonyms:	ALS2CR11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001168216, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAGCCACCCCAAGAGACAAATAGGCCTTTCAGCACACTTGATAACCGCAGCGGGCAG GTCCAAGTCCTGTCCGCCACCCGCTATTGCAGAGGAATCCCTACAGCAGCCGGATATC ATGCACATTAAAGGGTCGGAGGCTTCTTCGGTCCCTTACGCCCTGAACAGGGCAGCAGC GCCCTGCCTAAGAACAAGAACAGGAGGGCACCAGGCTGCTGAACATGCTGAGA AAAACCTCTTAAGAGTCTGATAGTGAAGAACTGGAAATAACACAGGAGACACCAATTTG GTGCCATTTGGGGATGTGGTTGGCTGCCCTGGGCATTATATAAAGAACTGCAGACATTTT ATGCCTAAGATCAGTTTACAACATTATGCTAATTTATTCATTGCGATCTCTATAAACAAA GCTGTGAAATGTACAAAAATGTGTAGCTTGCTATCCAAAAACGATGAGAAGAACTGTA ATTAAGTTCGATGAAGTGAAGTATTTTTCTGTACAGGTTCCAGACGTTATGATGATAAG CGGAATAATATTTTATTGGAACATACAAATATGACAATAGAGAAAAACGTGCTTTCTTG TTAGGGAGTGTTGAGATACATCTTTATGAGGTAATTCAGAAAGGGTGCTTCATTGAAGAG GTCCAAGTGTTGCATGGAAACATATTTGTCTGCAGGCTGGAGGTGGAATTTATGTTCTCC TATGGAACTTTGGTTATGGATTTTACATCAGTTAAACCTCTTCAGAAATTAAGTGA CCATCCATGTTTATGAATCTTGACACCTCCAGAAAGACAGATCCCGTGACAAAAGTT ATTACACCACAGACAGTAGAATATCCAGCATTCTATCCCCAGACCTGAATGTTACTGTT GGGACTCCAGCTGTGCAATCCTCCAACAGCCATCTGTAGTGCAGCTTGAAAACTTCAG CAACAACCCCGGAAAGGCTGGAAGATGAAAAAGAATATAGAAATCTGAATACATGG ATAGATAAGCTAACTATTTAGAAAGCATTCTAATGCCAAAATTGGAACATAAGGATTCT GAGGAACTAATATAGATGAGGCATCTGAAAACACGAAAAGTAATCATCTGAAGAGGAG CTTGAAAAATTTGAGGAGTAGGTGGCTTTTACCAAAAGAATATAA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001168216



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>NM_001168216.1, NP_001161688.1</u>
<b>RefSeq Size:</b>	1779 bp
<b>RefSeq ORF:</b>	1188 bp
<b>Locus ID:</b>	151254
<b>UniProt ID:</b>	<u>Q53TS8</u>
<b>Cytogenetics:</b>	2q33.1
<b>Gene Summary:</b>	<p>An autosomal recessive form of juvenile amyotrophic lateral sclerosis was originally mapped to a region of chromosome 2 that includes this gene. The encoded protein contains a calcium-dependent membrane targeting C2 domain. This domain is often found in proteins that are involved in membrane trafficking and signal transduction. [provided by RefSeq, Jun 2016]</p> <p>Transcript Variant: This variant (4) lacks several alternate exons in the 3' coding region, compared to variant 1, one of which results in a frameshift. The resulting protein (isoform 4) has a shorter and distinct C-terminus, compared to isoform 1.</p>