

## Product datasheet for **SC108682**

### CDC42SE2 (NM\_020240) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42SE2 (NM_020240) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42SE2
Synonyms:	SPEC2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108682 sequence for NM_020240 edited (data generated by NextGen Sequencing) ATGAGTGAATTCTGGTTGTGTTTCAACTGCTGTATTGCAGAACAGCCTCAGCCTAAAAGG CGACGGCGGATTGACAGAAGTATGATTGGAGAGCCACAAACTTTGTGCATACAGCTCAT GTTGGATCAGGAGACCTGTTTCAGTGAATGAATTCAGTTAGCTCCATTCAGAACCAAATG CAGTCCAAGGGAGGTTATGGAGGTGGAATGCCTGCCAATGTCCAGATGCAGCTCGTGGAT ACGAAGGCGGGATAG

Clone variation with respect to NM\_020240.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_020240 unedited TCCACAATTTGTAAACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGTAGAACCGAA CAAGAAGGAAACAATCCAAATTTTTCTTTATAATCGCTGTGTAAGATACTTGACTTCCAG GAACAAAAACACGGTGAATAATAAAATTTTCATCTTGGCATCACTGGACATCATCGTATT GAGGAGCGTATTTTTGGAACCTCCCGAGTTGAGATTTGGAACCTTCATTGGTGCTCATT ACTGTGGACTGTAAGCATGAGTGAATCTGGTTGTGTTTCAACTGCTGTATTGCAGAACA GCCTCAGCCTAAAAGGCGACGGCGGATTGACAGAAGTATGATTGGAGAGCCACAAACTT TGTGCATACAGCTCATGTTGGATCAGGAGACCTGTTTCAGTGAATGAATTCAGTTAGCTC CATTTCAGAACCAAATGCAGTCCAAGGGAGGTTATGGAGGTGGAATGCCTGCCAATGTCCA GATGCAGCTCGTGGATACGAAGGCGGGATAGCCCTGGTCTTTTCCAGGTTATTGTGAA TTTCTATATTTTCTGTGCCACTATTCTGTAATTTTTTTTTGTCTGTGATTGCTTTAT NTTGGATTACAAAAAGAAGTGTGATGGCACCTTGCCACCTGTCTGATTAATCCAGTG AGATNGTACTGTTCTGCTCTGAAGAGATACTGTGACAGCAATTCGATTTCCCTCAGCT GGCATGCATGCCTTTGGACTCATGGACAGAGTTCTTTGGATTGCACTGAATTTCCATGG TTAATCAGTATGGATCTGATCCTCCCATGATCTTTTTGGGGATGCTAACCATTTTGCAA GTTTTTTTTCTATTAACATTTTTTTTTACTGCCGACCCTGCCTAACCTTTTATTGG AAGCAAGGCCTGGATTAATTGTAAT
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<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020240
<b>Insert Size:</b>	1410 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>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>	<a href="#">NM_020240.1</a> , <a href="#">NP_064625.1</a>
<b>RefSeq Size:</b>	255 bp
<b>RefSeq ORF:</b>	255 bp
<b>Locus ID:</b>	56990
<b>UniProt ID:</b>	<a href="#">Q9NRR3</a>
<b>Cytogenetics:</b>	5q31.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>Probably involved in the organization of the actin cytoskeleton by acting downstream of CDC42, inducing actin filament assembly. Alters CDC42-induced cell shape changes. In activated T-cells, may play a role in CDC42-mediated F-actin accumulation at the immunological synapse. May play a role in early contractile events in phagocytosis in macrophages.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein.</p>