

Product datasheet for **SC323230**

CASK (NM_001126055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASK (NM_001126055) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASK
Synonyms:	CAGH39; CAMGUK; CMG; FGS4; hCASK; LIN2; MICPCH; MRXSNA; TNRC8
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001126055, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGACGACGACGTGCTGTTTCGAGGATGTGTACGAGCTGTGCGAGGTGATCGGAAAGGGTCCCTTCA
GTGTTGTACGACGATGTATCAACAGAGAAACTGGGCAACAATTTGCTGTAATAATTTGTTGATGTAGCCAA
GTTCCACATCAAGTCCAGGGTTAAGTACAGAAGATCTAAAGCGGGAAGCCAGTATCTGTATGTGATGAAA
CATCCACACATTGTAGAGTTATTGGAGACATATAGCTCAGATGGAATGCTTTACATGGTTTTCGAATTTA
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GATGCTGGATCCAGCTGAAAGGATCACTGTTTATGAAGCACTGAATCACCCATGGCTTAAGGAGCGGGAT
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TTCACACACTACTAGATCTGTATGACAAAATTAACACAAAGTCTTACCACAAATCAGGAATCCTCCAAG
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GAACTAAAGCGTATTTTAAACACAACCTCATTTCATGGCCTTACTCAGACTCACGACGTGATGCGCATG
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AAACTGGAAAACCTCAAAAATGGAAGTGCAGGTCTCATTCTCTCTGAACTTCAGGAATGGCGAGTAG
CTTGCAATGGCATTGGAGAAGACCAAAACAGGAGCAGCAGGCCAGCTGTACTTGGTTTGGCAAGAAAAAGAA
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ATCTCTAATAACGAGTACTTGGAGTACGGCAGCCACGAGGATGCGATGTATGGACAAAACCTGGAGACCA
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AACTGCAGAGTTTGTCTCTTTTGTGTTTTTATTGCTGCACCAACTATTACTCCAGGTTTAAATGAGGAT
GAATCTTTCAGCGTCTGCAGAAGGAGTCTGACATCTTACAGAGAACATATGCACACTACTTCGATCTCA
CAATTATCAACAATGAAATTTGATGAGACAATCAGACATCTGGAGGAAGCTGTTGAGCTCGTGTGCACAGC
CCCACAGTGGGTCCCTGTCTCCTGGGTCTATTAG
    
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Restriction Sites: Please inquire
ACCN: NM_001126055
Insert Size: 2700 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).
OTI Annotation:	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.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001126055.2</u> , <u>NP_001119527.1</u>
RefSeq Size:	8226 bp
RefSeq ORF:	2694 bp
Locus ID:	8573
UniProt ID:	<u>O14936</u>
Cytogenetics:	Xp11.4
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Tight junction
Gene Summary:	<p>This gene encodes a calcium/calmodulin-dependent serine protein kinase. The encoded protein is a MAGUK (membrane-associated guanylate kinase) protein family member. These proteins are scaffold proteins and the encoded protein is located at synapses in the brain. Mutations in this gene are associated with FG syndrome 4, intellectual disability and microcephaly with pontine and cerebellar hypoplasia, and a form of X-linked intellectual disability. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (3) lacks two alternate in-frame exons and use an alternate in-frame splice site compared to variant 1. The resulting protein (isoform 3) is shorter compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>