

Product datasheet for **MC229103**

Cask (NM_001284504) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cask (NM_001284504) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cask
Synonyms:	DXPri1; DXRib1; LIN-2; mLin-2; Pals3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229103 representing NM_001284504
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACGACGACGTGCTGTTCGAGGATGTGTACGAGCTATGCGAGGTGATCGGCAAGGTCCTTCA
 GTGTTGTACGGCGATGTATCAACAGAGAACTGGCAACAATTTGCTGTAAAAATTGTTGATGTAGCCAA
 GTTCACATCAAGTCCAGGTTAAGTACAGAAGATCTAAAGCGGGAAGCCAGTATCTGTATATGCTGAAG
 CATCCACACATTGTAGAGCTGTTGGAGACATATAGCTCAGATGGGATGCTTTACATGGTTTTGAATTTA
 TGGATGGAGCAGATCTGTGTTTTGAAATCGTAAAGCGAGCTGATGCTGGTTTTGTATACAGTGAAGCTGT
 AGCCAGCCACTACATGAGACAGATACTGGAAGCTCTGCGCTACTGTCATGATAATAACATAATTCACAGG
 GACGTGAAGCCCACTGTGTTCTCCTTGCCTCAAAGAAAACCTCGGCACCTGTTAACTTGGGGCTTTG
 GGGTGGCCATTAGTCTAGGAGAATCTGGACTTGTGCTGGAGGCCGCTTGAACACCTCACTTTATGGC
 CCCAGAAGTGGTCAAGAGAGAGCCTTACGGAAAGCCTGTGGATGTCTGGGCTGTGGTGTATCCTTTTC
 ATCCTGCTCAGTGGCTGTTTGCCTTTCTACGGAACCAAGGAAAGATTGTTTGAAGGCATTATTAAGGAA
 AATATAAGATGAATCCAAGGCAGTGGAGCCATATCTCTGAAAGTGCCAAAGACCTAGTACGCCGATGCT
 GATGCTGGATCCTGCTGAAAGGATCACTGTTTATGAAGCACTGAATCACCCATGGCTTAAGGAGCGGGAT
 CGTTATGCCTACAAAATCCATCTTCCAGAAACAGTAGAACAACCTGAGGAAATTCATGCAAGGAGAAAAC
 TAAAGGTGCAGTACTAGCTGCTGTGTCAAGTCAAAAATCAATTCCTTCTATGGGGACCTCCTGAAGA
 GTTGCCAGATTTCTCCGAAGACCCTACCTCCTCAGGAGCCGCTCTCAGGTGCTGGACAGCCTGGAAGAG
 ATTCACGCACTTACAGACTGCAGTGAAGGACCTAGATTTTCTACACAGTGTTCAGGATCAACATC
 TTCACACACTGCTGGATCTGTATGACAAAATTAACACAAAAGCTTCGCCACAAATCAGGAACTCTCCAAG
 TGATGCAGTACAGAGAGCCAAAGAGGTATTGGAAGAAAATTCATGTTACCCTGAGAATAATGATGCGAAG
 GAACTAAAGCGTATTTTAAACACAACCTCATTTCATGGCCTTACTTCAGACTCATGATGTAGTGGCAGATG
 AAGTTTACAGTGTGAAGCATTAAAGGTCACACCTCCCCGACTTCCCCCTATTTAAACGGTGATTCTCC
 AGAAAAGTCAAACGGAGACATGGACATGGAGAATGTGACCAGAGTTCGGCTGGTACAGTTCAAAAGAAC
 ACGGATGAGCCAATGGGAATCACTTTGAAAATGAATGAGCTAAATCATTGTATTGTGCGAAGAATCATGC
 ATGGGGGTATGATTACAGGCAAGGTACACTTCATGTTGGTGTGAAATCCGAGAATCAATGGCATCAG
 TGTGCTAACCAAACAGTGAAGCAGCTACAGAAAATGCTTAGGGAATGCGAGGGAGTATTACCTTCAAG
 ATTTGTGCCAAGCTACCGCACTCAGTCTTGTGCTGAGATCTATGTAAGAGCACATTTGAATATGATC
 CAGCCAAGGATGACCTCATCCCCTGCAAAGAAGCTGGCATCCGGTTCCGAGTTGGTGACATCATCCAGAT
 TATTAGTAAGGATGACCAAACTGGTGGCAGGGTAAACTGGAAAACCTCAAAAATGGAATGCAGGTCTC
 ATTCCTTCTCCTGAACCTCAGGAATGGCGAGTAGCTTGCATTGCCATGGAGAAGACCAAACAAGAGCAGC
 AGGCCAGCTGTACTTGGTTTGGCAAGAAAAGAAGCAGTACAAAGATAAATATTTGGCAAAGCACAAACGC
 AGATCTTGTACATATGAAGAAGTAGTCAAACCTGCCAGCATTCAAAGGAAAACATTAGTCTTATTAGGT
 GCACATGGTGTGGGAAGAAGACACATAAAAAATACCCTCATCACAAAGCACCCGGACCGTTTGCATACC
 CTATTCACATACAACCAGACCTCAAAGAAAAGATGAAGAAAATGGCAAGAATTATTACTTTGTATCTCA
 TGACCAAAATGATGCAAGACATCTCAAATAACGAATACTTGGAGTATGGCAGCCATGAGGATGCAATGTAC
 GGGACAAAACCTGGAGACCATTGCGAAAATCCATGAGCAGGGGCTGATTGCGATTCTGGACGTGGAGCCTC
 AGGCACCTGAAGGTCCTGAGGACTGCAGAGTTTGTCTCTTTTGTGCTTTCATTGCGGCGCAACTATCAC
 TCCAGGTTTAAATGAGGATGAATCTCTTTCAGCGCCTGCAGAAGGAGTCCGATGTCTTGCAGAGAACATAT
 GCACACTACTTCGATCTCACAATTATCAACAACGAAAATGATGAGACAATCAGACATCTGGAAGAAGCTG
 TCGAGCTTGTGTGCACAGCCCCACAGTGGGTCCCAGTCTCCTGGGTCTAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001284504

Insert Size:	2643 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001284504.1</u> , <u>NP_001271433.1</u>
RefSeq Size:	8238 bp
RefSeq ORF:	2643 bp
Locus ID:	12361
UniProt ID:	<u>O70589</u>
Cytogenetics:	X 8.43 cM
Gene Summary:	<p>Multidomain scaffolding protein with a role in synaptic transmembrane protein anchoring and ion channel trafficking. Contributes to neural development and regulation of gene expression via interaction with the transcription factor TBR1. Binds to cell-surface proteins, including amyloid precursor protein, neurexins, and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has multiple in-frame differences in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p> <p>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.</p>