

Product datasheet for **MC229175**

Cask (NM_001284505) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cask (NM_001284505) 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: >MC229175 representing NM_001284505
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACGACGACGTGCTGTTTCGAGGATGTGTACGAGCTATGCGAGGTGATCGGCAAGGTTCCCTTCA
 GTGTTGTACGGCGATGTATCAACAGAGAACTGGGCAACAATTTGCTGTAAAAATTGTTGATGTAGCCAA
 GTTCACATCAAGTCCAGGTTAAGTACAGAAGATCTAAAGCGGGAAGCCAGTATCTGTATGCTGAAG
 CATCCACACATTGTAGAGCTGTTGGAGACATATAGCTCAGATGGGATGCTTTACATGGTTTTGAATTTA
 TGGATGGAGCAGATCTGTGTTTTGAAATCGTAAAGCGAGCTGTGCTGGTTTTGTATACAGTGAAGCTGT
 AGCCAGCCACTACATGAGACAGATACTGGAAGCTCTGCGCTACTGTCATGATAATAACATAATTCACAGG
 GACGTGAAGCCCACTGTGTTCTCCTTGCCTCAAAGAAAACCTCGGCACCTGTTAACTTGGGGGCTTTG
 GGGTGGCCATTAGTCTAGGAGAATCTGGACTTGTGCTGGAGGCCGCTTGAACACCTCACTTTATGGC
 CCCAGAAGTGGTCAAGAGAGAGCCTTACGGAAAGCCTGTGGATGTCTGGGGCTGTGGTGTATCCTTTTC
 ATCCTGCTCAGTGGCTGTTTGCCTTTCTACGGAACCAAGGAAAGATTGTTTGAAGGCATTATTAAGGAA
 AATATAAGATGAATCCAAGGCAGTGGAGCCATATCTCTGAAAGTGCCAAAGACCTAGTACGCCGATGCT
 GATGCTGGATCCTGCTGAAAGGATCACTGTTTATGAAGCACTGAATCACCATGGCTTAAGGAGCGGGAT
 CGTTATGCCTACAAAATCCATCTTCCAGAAACAGTAGAACAACCTGAGGAAATTCATGCAAGGAGAAAAAC
 TAAAGGGTGCAGTACTAGCTGCTGTGTCAAGTCAAAAATCAATTCCTTCTATGGGGACCTCCTGAAGA
 GTTGCCAGATTTCTCCGAAGACCCTACCTCCTCAGGAGCCGCTCTCAGGTGCTGGACAGCCTGGAAGAG
 ATTCACGCACTTACAGACTGCAGTGAAGGACCTAGATTTTCTACACAGTGTTCAGGATCAACATC
 TTCACACACTGCTGGATCTGTATGACAAAATTAACACAAAAGCTTCGCCACAAATCAGGAATCCTCCAAG
 TGATGCAGTACAGAGAGCCAAAGAGGTATTGGAAGAAAATTCATGTTACCCTGAGAATAATGATGCGGAAG
 GAACTAAAGCGTATTTTAAACACAACCTCATTTCATGGCCTTACTTCAGACTCATGATGTAGTGGCACATG
 AAGTTTACAGTGTGAAGCATTAAAGGTCACACCTCCCCGACTTCCCCCTATTTAAACGGTGATTTCTCC
 AGAAAAGTGCAACCGGAGACATGGACATGGAGAATGTGACCAGAGTTCGGCTGGTACAGTTCAAAAAGAAC
 ACGGATGAGCCAATGGGAATCACTTTGAAAATGAATGAGCTAAATCATTGTATTGTGCGAAGAAATCATGC
 ATGGGGGTATGATTCACAGGCAAGGTACACTTCATGTTGGTGTGAAATCCGAGAAATCAATGGCATCAG
 TGTCGCTAACCAACAGTGAAGCAGCTACAGAAAATGCTTAGGGAAATGCGAGGGAGTATTACCTTCAAG
 ATTTGTGCCAAGCTACCGCACTCAGTCTTGTCTGTGAGAGAGATTCCCCCTCCACTTCCAGACAGTCCC
 CTGCTAATGGTCAATAGCAGCACTAACAATTCGTTTCGGACTTGCCATCAACCACCAACCAAAAAGGACG
 ACAGATCTATGTAAGAGCACAATTTGAATATGATCCAGCCAAGGATGACCTCATCCCCTGCAAAAAGAGCT
 GGCATCCGGTTCCGAGTTGGTGACATCATCCGATTATTAGTAAGGATGACCACAACCTGGTGGCAGGGTA
 AACTGGAAAACCTCAAAAATGGAAGTGCAGGTCTCATTCTTCTCCTGAACTTCCAGGAATGGCGAGTAGC
 TTGCATTGCCATGGAGAAGCAAAAAGAGCAGCAGGCCAGCTGTACTTGGTTTGGCAAGAAAAAGAAAG
 CAGTACAAAGATAAATTTGGCAAAGCACAACGCAAGTGTGATCAATTAGATCTTGTACATATGAAG
 AAGTAGTCAAACCTGCCAGCATTCAAAGGAAAAACATTAGTCTTATTAGGTGCACATGGTGTGGAAGAAG
 ACACATAAAAAATACCCTCATCACAAGCACCCGGACCGGTTTGGGTACCCTATTCACATACAACCAGA
 CCTCCAAAGAAAAGATGAAGAAAATGGCAAGAATTATTACTTTGTATCTCATGACCAAAATGATGCAAGACA
 TCTCAAATAACGAATACTTGGAGTATGGCAGCCATGAGGATGCAATGTACGGGACAAAACGGAGACCAT
 TCGGAAAATCCATGAGCAGGGGCTGATTGCGATTCTGGACGTGGAGCCTCAGGCACTGAAGGTCTGAGG
 ACTGCAGAGTTTGTCTCTTTTGTGCTTTCATTGCGGCGCAACTATCACTCCAGGTTTAAATGAGGATG
 AATCTCTTCCAGCGCTGCAGAAGGAGTCCGATGTCTTGCAGAGAACATATGCACACTACTTCGATCTCAC
 AATTATCAACAACGAAATTTGATGAGACAATCAGACATCTGGAAGAAGCTGTGAGCTTGTGTGCACAGCC
 CCACAGTGGGTCCAGTCTCCTGGTCTATTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001284505
Insert Size:	2763 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_001284505.1</u> , <u>NP_001271434.1</u>
RefSeq Size:	8358 bp
RefSeq ORF:	2763 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 (3) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 3), 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>