

Product datasheet for **MR231386**

Cask (NM_001284505) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cask (NM_001284505) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR231386 representing NM_001284505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACGACGACGTGCTGTTTCGAGGATGTGTACGAGCTATGCGAGGTGATCGGCAAGGTTCCCTTCA
 GTGTTGTACGGCGATGTATCAACAGAGAACTGGCAACAATTTGCTGTAAAAATTGTTGATGTAGCCAA
 GTTCACATCAAGTCCAGGTTAAGTACAGAAGATCTAAAGCGGGAAGCCAGTATCTGTATATGCTGAAG
 CATCCACACATTGTAGAGCTGTTGGAGACATATAGCTCAGATGGGATGCTTTACATGGTTTTTGAATTTA
 TGGATGGAGCAGATCTGTGTTTTGAAATCGTAAAGCGAGCTGATGCTGGTTTTGTATACAGTGAAGCTGT
 AGCCAGCCACTACATGAGACAGATACTGGAAGCTCTGCGCTACTGTCATGATAATAACATAATTCACAGG
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 AATATAAGATGAATCCAAGGCAGTGGAGCCATATCTCTGAAAGTGCCAAAGACCTAGTACGCCGATGCT
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR231386 representing NM_001284505
 Red=Cloning site Green=Tags(s)

MADDDVLFEDVYELCEVIGKGPFSVVRRCINRETGQQFAVKIVDVAKFTSSPGLSTEDLKREASICHMLK
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 DVKPHCVLLASKENSAPVKLGGFGVAIQLGESGLVAGGRVGTPHFMAPEVVKREPYGKPVVDVWCGGVILF
 ILLSGCLPFYGTKERLFEGIIKGYKMNPRQWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERD
 RYAYKIHLPETVEQLRKFNARRKLGAVLAAVSSHKFNFSFYGDPPPEELPDFSEDPTSSGAVSQVLDLLEE
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 TDEPMGITLKMNELNHCIVARIMHGGMIHRQGTLVHGDEIREINGISVANQTVEQLQKMLREMRGSI^{*}TFK
 IVPSYRTQSSSCERDPS^{*}TSRQSPANGHSSTNNSVSDLPSTTQPKGRQIYVRAQFEYDPAKDDLIPCKEA
 GIRFRVGDIIQIIISKDDHNWWQKLENSKNGTAGLIPSELQEWVACIAMEKTKQEQQASCTWFGK^{*}KKK
 QYKDKYLAKHNAVFDQLDLVTYEEVVKLPAFKRKTLLVLLGAHGVRRRHIKNTLITKHPDRFAYPIPH^{*}TTR
 PPKKDEENGNYYFVSHDQMMQDISNNEYLEYGSHEDAMYGKLETIRKIH^{*}EQGLAILDVEPQALKVLR
 TAEFAPFVVFIAAPTITPGLNEDESLQRLQKESDVLQRTYAHYFDLTIINNEIDETIRHLEEAVELVCTA
 PQWVPVSWVY

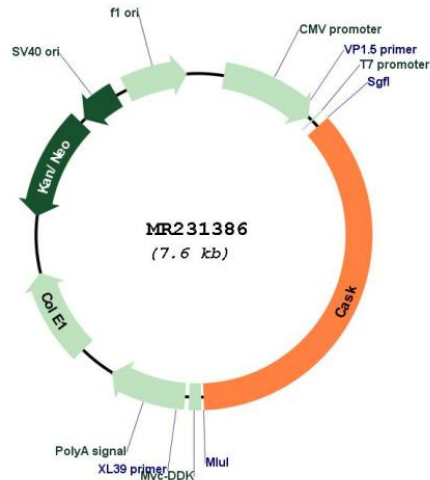
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001284505

ORF Size: 2760 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_001284505.1](#), [NP_001271434.1](#)

RefSeq Size: 8358 bp

RefSeq ORF: 2763 bp

Locus ID: 12361

UniProt ID: [O70589](#)

Cytogenetics: X 8.43 cM

MW: 104.9 kDa

Gene Summary: 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]