

Product datasheet for **MR229950**

Cast (NM_001301158) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cast (NM_001301158) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cast
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229950 representing NM_001301158 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGGCCAGTTTCTGCTTCTACTTTCTGGGAGGGCTCACCTGCTGCAGTGTGGCAAGAAAAGCTTCGTG
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ACAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR229950 representing NM_001301158
 Red=Cloning site Green=Tags(s)

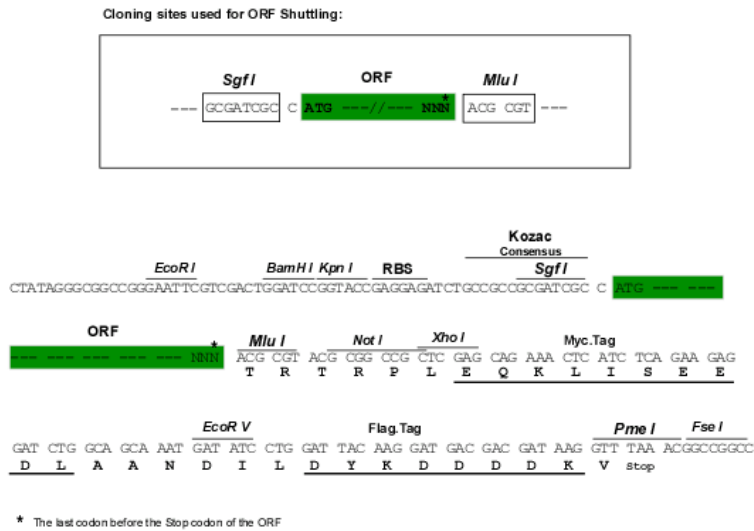
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 ETVPRASMCIRSAPPKLASLKGVPEDAVETLAGSLGTREADPEHEKTVEDKVKKEKAKEEHEKLGKE
 ETVPPDYRLEEVDKDKGKPLLPKESQEQALAPLSDDFLLDALSQDFSSPANISSLEFEDAKLSAAISEVVS
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 PEYRHLLDNDGDKPEKPPTKKTEKPDQDRPIDALSEDLDSCPSTTETSKN TAKGSKKTSSSKASKDG
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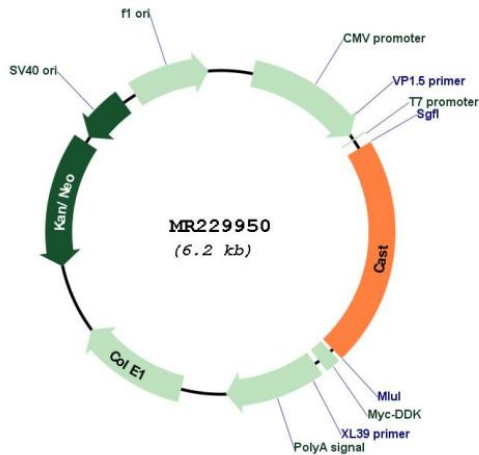
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001301158
ORF Size:	1335 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:	<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:	NM_001301158.1 , NP_001288087.1
RefSeq Size:	2970 bp
RefSeq ORF:	1338 bp
Locus ID:	12380
Cytogenetics:	13 C1
MW:	49.4 kDa
Gene Summary:	This gene encodes an inhibitor of the calcium-dependent cysteine protease, calpain. This protein plays roles in multiple processes, including apoptosis, cell cycle regulation, and membrane fusion. Multiple protein isoforms exist which contain unique N-terminal domains, and multiple inhibitory domains that share homology with each other. Some isoforms may be tissue-specific. Two different pseudogenes of this gene are found on chromosome 19. [provided by RefSeq, Jul 2014]