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Product datasheet for MG219445

Cnn1 (NM_009922) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnn1 (NM_009922) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnn1
Synonyms:	CN; CnnI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG219445 representing NM_009922
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTCTGCACATTTTAACCGAGGTCCTGCCTACGGCTTGTCTGCTGAAGTAAAGAACAAGCTGGCCC
AGAAATACGACCATCAGCGGGAGCAGGAGCTGAGAGAGTGGATTGAGGGGGTGACAGGCCGGCGCATCGG
GAACAACTTCATGGATGGCCTCAAAGATGGGATCATTCTTTGCGAATTTATCAACAAGCTGCAGCCGGGT
TCTGTGAAGAAGGTCAATGAGTCAACTCAGAACTGGCACCAGCTGGAGAACATAGGTAATTTCATCAAAG
CCATTACCAAGTATGGGGTGAAACCCCACGACATCTTTGAGGCCAACGACCTGTTTGAAAACACCAACCA
TACACAAGTTCAGTCCACTCTCCTGGCTCTGGCCAGCATGGCCAAGACAAAAGGAAACAAAGTCAATGTG
GGAGTCAAGTATGCAGAGAAACAAGAGCGGAGATTTGAGCCGGAGAAGTTGAGAGAAGGCAGGAACATCA
TTGGACTGCAGATGGGCACCAACAAGTTTGCCAGTCAGCAGGGCATGACGGCCTATGGTACACGGCGTCA
CCTCTATGATCCCAAACTGGGTACAGATCAGCCTCTGGACCAGGCGACCATCAGCCTGCAGATGGGCACC
AACAAGGGTGCCAGCCAGGCTGGCATGACTGCACCAGGCACCAAGCGGCAGATCTTTGAGCCAGGTCTGG
GCATGGAACACTGCGACACACTCAACGTCAGCTTGCAGATGGGCAGCAACAAGGGGGCCTCCCAGAGGGG
CATGACAGTGTATGGGCTTCCTCGCCAGGTGTACGATCCCAAGTACTGCCTGAACCCGGAGTACCCAGAG
CTGAGTGAGCCCACCCACAATCACCACCCGCACAACTACTACAACTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

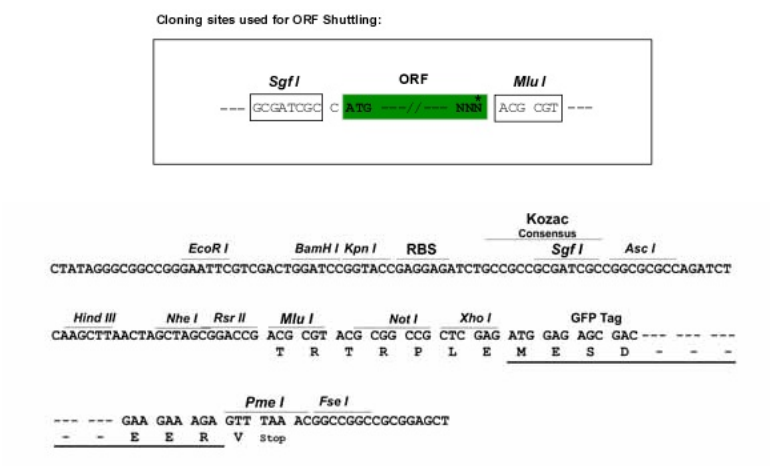
>MG219445 representing NM_009922
Red=Cloning site Green=Tags(s)

MSSAHFNRGPAYGLSAEVKNKLAQKYDHQREQELREWIEGVTGRRIGNNFMDGLKDGIILCEFINKLQPG
SVKKVNESTQNWHQLENIGNFIKAITKYGVKPHDIFEANDLFENTNHTQVQSTLLALASMAKTKGNKVNV
GVKYAEKQERRFEPEKLREGRNIIGLQMGTNKFASQQGMTAYGTRRHLYDPKLGTDQPLDQATISLQMGT
NKGASQAGMTAPGTKRQIFEPGLGMEHCDTLNVSLQMGSNKGASQRGMTVYGLPRQVYDPKYCLNPEYPE
LSEPTHNHHPHNYYNSA

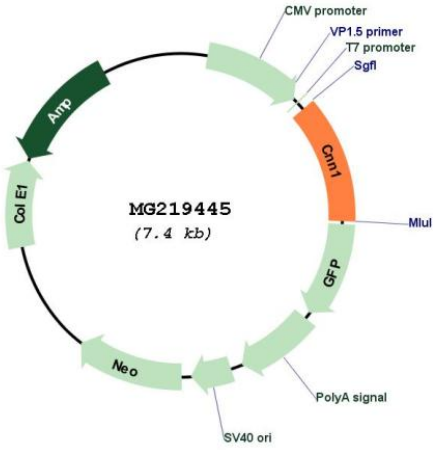
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009922

ORF Size: 891 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_009922.4, NP_034052.3
RefSeq Size:	1987 bp
RefSeq ORF:	894 bp
Locus ID:	12797
UniProt ID:	Q08091
Cytogenetics:	9 A3
Gene Summary:	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.[UniProtKB/Swiss-Prot Function]