

Product datasheet for **MG204953**

Cnmd (NM_010701) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnmd (NM_010701) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnmd
Synonyms:	Bricd3; ChM-I; Chmd; Lect1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204953 representing NM_010701 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGAGAAGCTCAGACAAAGTTCCTATCACCATGGTAGGGCCTGAGGACGTTGAGTTTTGCAGTCCCC
CGGCGTACACCACCGTCACCGTGAAGCCCTCCGGGAGCCCAACACGGCTGCTCAAGGTAGGAGCTGTGGT
CCTCATTCTGGCGGGTACTGCTGCTCTCGGGGCCATCGGGCCTTCTACTTCTGGAAGGGGAATGAC
AATCACATTTACAATGTTTACATTACAGTATGAGTATCAATGGGAACTACAAGATGGGTCAATGAAATAG
ATGCTGTGAACAACCTGGAGACCTTTAAAATGGGAAGCGGAGCGGAAGAAGCAATTGAAGTCAACGATTT
TAAAAATGGCATCACTGGGATCCGTTTTGCTGGAGGAGAGAAGTCTACATCAAAGCACAGGTGAAGGCT
CGCATCCCTGAGGTGGGCACAGTGACCAAGCAGAGCATCTCTGAACTGGAAGGCAAGATCATGCCAGCTA
ACTACGAAGAGAAGCTCGCTGATTTGGGTGGCCGTGGACCAGCCTGTGAAGGACAGCAGCTTCTTGAGCTC
TAAAATCCTTGAAGTCTGTGGCGACCTGCCGATTTTCTGGCTTAAGCCCATGTATCCAAAAGAAATCCAG
AGAGAGAGAAGAGAAGTCGTGAGAAACAGTGTCCCTCTACCACAAGAAGACCACACAGCGAACCTCGAG
GTAACGCAGGCCCTGGAAGACTGAGTAACGGAACCAGACCAATGTTTCAAGGACGACGAGAACCTTTCAA
CCCTGACAATCCTTACCACCAGCAGGAAGGAGAAAAGCATGACATTTGACCCTAGACTGGACCATGAAGGG
ATCTGCTGTATAGAATGCAGGCGGAGCTACACCCACTGCCAGAAGATCTGTGAACCACTGGGAGGCTACT
ATCCATGGCCTTACAATTACCAAGGATGCCGCTCGGCCTGCAGAGTCGTCATGCCATGCAGCTGGTGGGT
GGCCCGCATCTTGGGCATGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204953 representing NM_010701
 Red=Cloning site Green=Tags(s)

MTENS DKVPITMVG PEDVEFCSPPAYTTVTVKPSGSPTRLLKVGAVVLISGAVLLLFGAIGAFYFWKGN
 NHIYNVHYSMSINGKLQDGSMEIDAVNNLETFKMGSGAEAEIENVDFKNGITGIRFAGGEKCYIKAQVKA
 RIPEVGTVTKQSI SELE GKIMPANYEENSLI WVAVDQPVKDSSFLSSKILELCGDLPIFWLKPMYPKEIQ
 RERREVV RNSAPSTTRRPHSEPRGNAGPGRLSNGTRPNVQDDAEPFNPDNPHYHQQEGESMTFDPRLDHEG
 ICCIECRRSYTHCQKICEPLGGYYPWPYNYQGCRSACRVVMPCSWVVARILGMV

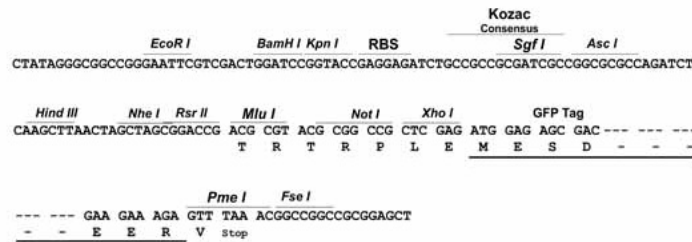
TRTRPLE - GFP Tag - V

Restriction Sites:

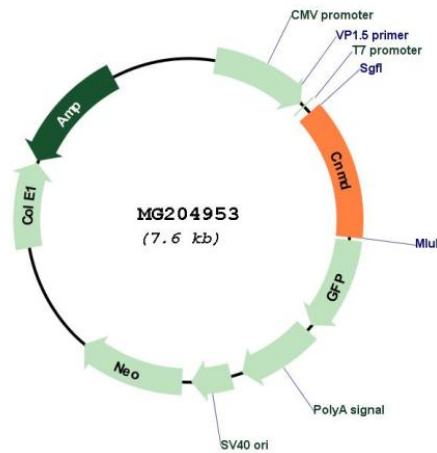
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010701

ORF Size: 1002 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_010701.3
RefSeq Size:	1449 bp
RefSeq ORF:	1005 bp
Locus ID:	16840
UniProt ID:	Q9Z1F6
Cytogenetics:	14 D3
Gene Summary:	Bifunctional growth regulator that stimulates the growth of cultured chondrocytes in the presence of basic fibroblast growth factor (FGF) but inhibits the growth of cultured vascular endothelial cells. May contribute to the rapid growth of cartilage and vascular invasion prior to the replacement of cartilage by bone during endochondral bone development (By similarity). Inhibits in vitro tube formation and mobilization of endothelial cells (By similarity). Plays a role as antiangiogenic factor in cardiac valves to suppress neovascularization. [UniProtKB/Swiss-Prot Function]