

Product datasheet for **MG224378**

Dcn (NM_001190451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcn (NM_001190451) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dcn
Synonyms:	DC; DSPG2; PG40; PGII; PGS2; SL; SLRR1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224378 representing NM_001190451 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCAACTCTCATCTTCTTCTTCTGGCACAAGTCTCTTGGGCTGGACATTTGAACAGAGAGGCT
TATTTGACTTCATGCTAGAAGATGAGGCTTCTGGCATAATCCCTTATGACCCTGACAATCCCCTGATATC
TATGTGCCCTACCGATGCCAGTGTCTTTCGAGTGGTGCAGTGTCTGATCTGGGTTTGGACAAAGT
CCCTGGGATTTCCACCCGACACAACCTTGCTAGACCTGCAAAACAACAAAATTACAGAGATCAAAGAAG
GGCCTTCAAGAACCTGAAGGACTTGCATACCTTGATCCTTGCAACAACAAGATCAGCAAAATCAGTCC
AGAGGCATTCAAACCTCTCGTGAAGTTGAAAGGCTTTACCTGTCTAAGAACCAACTAAAGGAAGTGCCT
GAAAAATGCCAGAACTCTCCAGGAATTCGTGTCCATGAGAATGAGATCACCAGCTGCGGAAATCCG
ACTTCAATGGACTGAACAATGTGCTTGTATAGAACTGGGCGGCAACCCACTGAAAACTCTGGGATTGA
AAACGGAGCCTTCCAGGGACTGAAGAGTCTCTCATACATTCGCATCTCAGACACCAACATAAAGTGCATC
CCTCAAGGTCTGCCTACTTCTCTCACTGAAGTGCATCTAGATGGCAACAAGATCACCAGGTTGATGCAC
CCAGCCTGAAAGGACTGATTAATTTGTCTAAACTGGGATTGAGCTTCAACAGCATCACCGTTATGGAGAA
TGGCAGTCTGGCAATGTTCTCATCTGAGGGAACCTCACTTGGACAACAACAACTCCTCAGGGTGCCT
GCTGGGCTGGCAGCAGCATAAGTATATCCAGGTCGTCTACCTTCAACAACAACATCTCCGAGTTGGGC
AAAATGACTTCTGCCGAGCTGGACACCCCTCTCGAAAGGTTCCCTACTCGGCTGTGAGTCTTTACGGCAA
CCCTGTCCGGTATTGGGAAATCTTCCAAACACCTTCAGATGTGTCTATGTGCGTCTGCCATTCAACT
GAAAACTACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224378 representing NM_001190451
 Red=Cloning site Green=Tags(s)

MKATLIFFLLAQVSWAGPFEQRGLDFMLEDEASGIIPYDPDNPLISMCPYRCQCHLRVVQCSDLGLDKV
 PWFPPDTLLDLQNNKITEIKEGAFKNLKDHLTLILVNNKISKISPEAFKPLVKLERLYLSKNQLKELP
 EKMPRTLQELRVHENEITKLKSDFNGLNNVLVIELGGNPLKNSGIENGAFQGLKLSYIRISDTNITAI
 PQGLPTSLTEVHLDGNKITKVDAPSLKGLINLSKLGLSFNISITVMENGLANVPHLRELHLDNNKLLRVP
 AGLAQHKYIQVYVYLHNNNISAVGQNDFCRAGHP SRKASYS AVSLYGNPVRYWEIFPNTFRVCYVRS AIQL
 GNYK

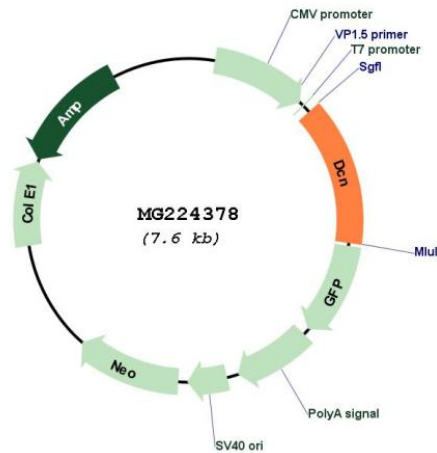
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190451

ORF Size:	1062 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_001190451.2
RefSeq Size:	1886 bp
RefSeq ORF:	1065 bp
Locus ID:	13179
UniProt ID:	P28654
Cytogenetics:	10 50.27 cM
Gene Summary:	This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded preproprotein is proteolytically processed to generate a mature protein product, which is secreted into the extracellular space to regulate collagen fibril assembly. Homozygous knockout mice for this gene exhibit enhanced tumorigenesis in a liver cancer model, and defects in collagen fibrils, leading to weakened skin and tendons. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]