

Product datasheet for **MG205053**

Dcps (NM_027030) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dcps (NM_027030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dcps
Synonyms:	1700001E16Rik; AA408441
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205053 representing NM_027030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATACAGCGCCTCAACTCAAGAGAAAGCGGAACAGGAGGCAGAGGAGGCAGAAACCCCGCA
CAGAGGAGAAGGAAGCAGGCGTTGGCAATGGCACCTCTGCCCTGTCCGTTACCGTTCTCCGGCTTAG
AGTACAAAAGTGCTCAGGGAGTCTGCGCGGGACAAAATTATTTCTGCATGGGAAGGTGAATGAGGAC
TCTGGGATACTCATGGAGAAGATGCGGTTGTGATCCTGGAGAAGACACCATTTCAGGTAGAACACGTGG
CGCAGCTCCTAACGGGGAGCCCTGAGCTCAAGTTGCAGTTCTCCAATGATATCTACAGCACCTATAACCT
GTTTCTCCAAGGCATCTGAGTGATATAAAAACAACCTGTGGTGTACCCTGCCACAGAGAAACACCTGCAA
AAATACATGCGTCAGGACCTCCGCTGATCCGAGAGACTGGAGATGACTACAGGACCATCACCTTACCCT
ACCTGGAATCCCAGAGCCTTAGCATCCAGTGGGTGTATAACATTCTTGACAAGAAGGCTGAAGCTGACCG
GATTGTTTTGAGAACCCAGACCCTTCTGATGGCTTTGTCCTCATCCCAGACCTCAAGTGGAAACCAGCAG
CAGCTTGATGACCTGATTTGATCGCCATCTGCCATCGCCGGGTATCAGATCACTTCGAGATCTCACTC
CAGAGCATCTGCCACTACTGAGGAACATTCTCCGGGAAGGACAAGAAGCCATCTGAAGCGCTACCAGGT
GACAGGAGACCGTCTGCGAGTGTACCTACACTACCTGCCCTTTACTATCACCTGCACGTGCATTTTACA
GCTCTGGGCTTCGAGGCTCCGGGTCAGGGTGGAGCGGCACACCTGCTGGCTCAAGTGATCGAGAACC
TGGAGTGTGACCCCAAGCACTATCAACAGCGCACTCTTACTTTTGCCTCAGGACCGATGACCCCTGCT
TCAGCTCCTGCAGAAGGCCAGCAAGAGAGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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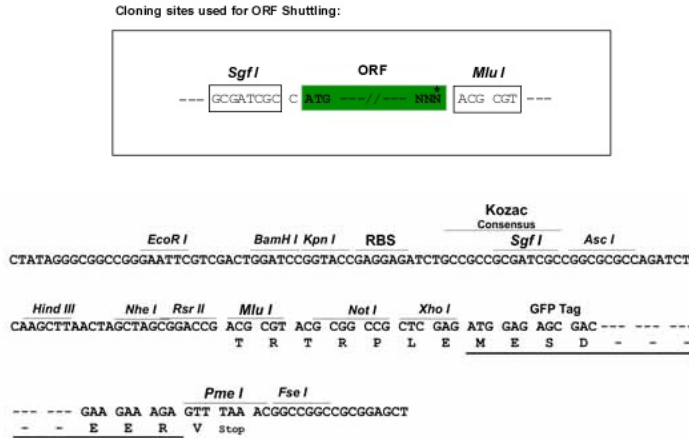
Protein Sequence: >MG205053 representing NM_027030
Red=Cloning site Green=Tags(s)

MADTAPQLKRRKEQEAEEAETPSTEEKEAGVGNGTAPVRLPFSGFRVQKVLRESARDKIIFLHGKVNED
 SGDTHGEDAVVILEKTPFQVEHVAQLL TGSPCLKLQFSNDIYSTYNLFPPRHLSDIKTTVVYPATEKHLQ
 KYMRQDLRLIRETGDDYRTITLPYLESQSLSIQWVYNILDKKAEADRVFENPDPSDGFVLIPDLKWNQQ
 QLDDL YLIAICHRRGIRSLRDL TPEHLPLLRNLRREGQEA I LKRYQVTDRLRVYLHYLPSYYHLHVHFT
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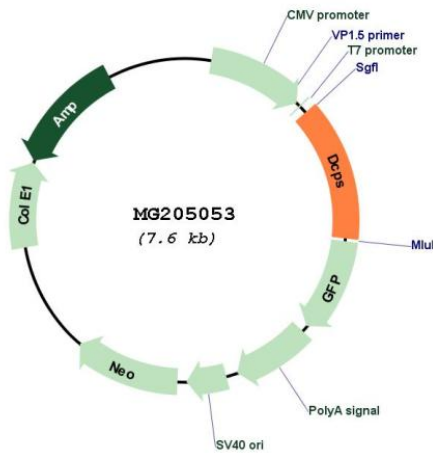
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027030

ORF Size: 1014 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_027030.2
RefSeq Size:	1195 bp
RefSeq ORF:	1017 bp
Locus ID:	69305
UniProt ID:	Q9DAR7
Cytogenetics:	9 A4
Gene Summary:	<p>Decapping scavenger enzyme that catalyzes the cleavage of a residual cap structure following the degradation of mRNAs by the 3'->5' exosome-mediated mRNA decay pathway. Hydrolyzes cap analog structures like 7-methylguanosine nucleoside triphosphate (m7GpppG) with up to 10 nucleotide substrates (small capped oligoribonucleotides) and specifically releases 5'-phosphorylated RNA fragments and 7-methylguanosine monophosphate (m7GMP). Cleaves cap analog structures like tri-methyl guanosine nucleoside triphosphate (m3(2,2,7)GpppG) with very poor efficiency. Does not hydrolyze unmethylated cap analog (GpppG) and shows no decapping activity on intact m7GpppG-capped mRNA molecules longer than 25 nucleotides. Does not hydrolyze 7-methylguanosine diphosphate (m7GDP) to m7GMP. May also play a role in the 5'->3' mRNA decay pathway; m7GDP, the downstream product released by the 5'->3' mRNA mediated decapping activity, may be also converted by DCPS to m7GMP. Binds to m7GpppG and strongly to m7GDP. Plays a role in first intron splicing of pre-mRNAs. Inhibits activation-induced cell death.</p> <p>[UniProtKB/Swiss-Prot Function]</p>