

Product datasheet for **MG217153**

Exo5 (NM_028457) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exo5 (NM_028457) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Exo5
Synonyms:	3110037116Rik; AV297100; Dem1; Exo V; mExo5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217153 representing NM_028457 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGACTGGGAAGAGGAGACAGCATCAGCAGAAGCCTCAGGGTTTTGAGACTTGAGTGA
AGTTAGTTGAATTTCTGGATCTGGAAGAAGCCAAAGAATCGGCTGTTTCACTTAGCAAGCCTGGCCCTT
TGCTGAATCCCTGGGAAGGATGACAAACCAGTAAGCTGCAGAACTGGAAGGGGGATTGGATGTCTT
TCACCCATGGAGAGATCCACCTGAAATATTTATATGTCAGTACCTGTGCACTCAGAACTGGTGTGAGT
TGCAGATGGTGTACGGGAAGGAGCTTCTGGTTGTTGACACCTGAGAAAGCAGCTGTTTTGGACTGG
TGCTAGCATCCACCTAGCAAAGAACTAGAACTTCATGACCTTGTGACAGTCCCATCGCCACAAAAGAA
GATGCTTGGGCAGTTAAGTTTCTGAACATACTAGCAATGATTCCTGCCCTACAGTCGGAAGGGCGGTC
GAGAGTTTCCAGTGTGGGGAGGTGGAGGGAATATTTCTTGTGGAGTCATTGATGAGTTGCACTACAC
ATCCAAGGGGAACTAGAGCTGGCTGAACTCAAGACACGAAGGCGCCCGTGTCCCTGCCAGCTCAG
AAAAAGAAAGACTATTTTCAAGTTAGCCTATACAAATATATCTTTGATGCCATGGTACAAGGAAAGTGA
CTCCTGTAGCCTAATCCACCACCTAAATTGTGTCTAGACAAGCCTGGGACCTTCTGTGCTGAGGCA
TGCCAGACAAGGAGGCGTGTCTGTAAAACTTTGGGTGACCTTATGGAAGTGGTTTTCTGTCTTTACA
CTGTCTGATCTCCAGCTATTGATACCCTAAAACCTTGGTATATCCATCAAGAGACTGCCATATACTGG
GCACAGAGATTGTAGCCTTTGAAGAGAAGGAAGTAAAAAGCAAGGTGCAGCATTACGTGGCCTACTGGAT
GGGCCACCGAGATCCTCAAGCGTTGATGTGGAGGAGGCATGGAAGTGCCGGACCTGTGACTATGTGGAC
ATCTGCGAGTGGAGGAGGGCAGTGGAGTGCTCAGCTCATCGTGGAGGCCAAAGCCAAGAAGTTTAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217153 representing NM_028457
 Red=Cloning site Green=Tags(s)

MAETGEEETASAEASGFSDLSDSELVEFLDLEEAKESAVSLSKPGPSAELPGKDDKPVSLQNWKGGLDVL
 SPMERFHLKYL YVTDLCTQNWCELQMVYKELPGSLTPEKAAVLDTGASIHlakeleHDLVTVP IATKE
 DAWAVKFLNILAMIPALQSEGRVREFPVFGEVEGIFLVGVIDELHYTSKGELELAELKTRRRPVLPLPAQ
 KKKDYFQVSLYKYIFDAMVQGVKTPASLIHHTKLCLDKPLGPSVLRHARQGGVSVKSLGDLMELVFLSLT
 LSDLPAIDTLKLEYIHQETATILGTEIVAFEKEVYKSKVQHYVAYWMGHRDPQGVVVEEAWKCRTCDYVD
 ICEWRRGSGVLSSSWEPKAKKFK

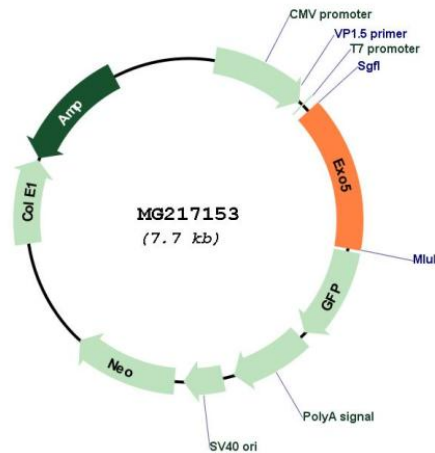
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028457

ORF Size:	1119 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_028457.2 , NP_082733.1
RefSeq Size:	1990 bp
RefSeq ORF:	1122 bp
Locus ID:	73172
UniProt ID:	Q9CXP9
Cytogenetics:	4 D2.2
Gene Summary:	Single-stranded DNA (ssDNA) bidirectional exonuclease involved in DNA repair. Probably involved in DNA repair following ultraviolet (UV) irradiation and interstrand cross-links (ICLs) damage. Has both 5'-3' and 3'-5' exonuclease activities with a strong preference for 5'-ends. Acts as a sliding exonuclease that loads at ssDNA ends and then slides along the ssDNA prior to cutting; however the sliding and the 3'-5' exonuclease activities are abolished upon binding to the replication protein A (RPA) complex that enforces 5'-directionality activity (By similarity).[UniProtKB/Swiss-Prot Function]