

Product datasheet for **RG203370**

DEMI (EXO5) (NM_022774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DEMI
Synonyms:	Clorf176; DEMI; Exo V; hExo5
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203370 representing NM_022774
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAGACAAGAGAAGAGGAGACAGTGTCTCAGCAGAAGCCTCAGGGTTCTCAGACTTGAGTGACTCAG
AGTTCTCGGAGTTTCTGGACCTAGAAGATGCCCAAGAGTCAAAGGCTTTAGTTAACATGCCTGGCCCATC
TTCTGAATCCCTTGGGAAGGATGACAAACCATAAGCTTACAAACTGGAAAAGAGGATTGGATATATTA
TCACCCATGGAGAGATTCCACCTTAAATATTTATATGTCAGTACCTGGCTACTCAGAACTGGTGTGAAC
TGCAAAACAGCATATGGGAAGGAGCTTCTGGTTTCTTGGCACCTGAGAAGGCAGCTGTGTTGGACACTGG
TGCCAGCATACACCTAGCTAGAGAAGTGAAGTTCATGATCTTGTGACTGTCCAGTCACCACTAAAGAA
GATGCTTGGGCAATTAAGTTTCTGAACATACTTTGCTGATTCCTACCCTGCAGTCAGAAGGGCACATCA
GAGAGTTTCCAGTGTGGGGAAGTGGAGGGTGTACTTCTTGTGGAGTGATTGATGAGCTGCACATAC
AGCCAAAGGGGAACTGGAGCTGGCGGAACTCAAGACACGCAGGCGCCTATGCTCCCTCTGGAAGCTCAG
AAGAAGAAAAGACTGTTTTCAAGTCAGCCTATACAAATATATCTTTGATGCCATGGTACAAGGAAAAGTGA
CCCCTGCTAGCCTAATCCACCACACAAAGTTGTGTCTAGAAAAGCCACTGGGGCCATCAGTGCTGAGGCA
TGCCAGCAGGGAGGCTTCTGTGAAGTCTTTGGGTGACCTCATGGAAGTGTCTTCTGTCTAACA
CTGTGAGACCTCCAGTTATTGATATCTTGAAGATTGAGTATATCCACCAAGAGACTGCCACTGTGCTGG
GTACTGAGATTGTAGCCTTCAAAGAGAAGGAGGTGAGAGCCAAGGTGCAGCATTATATGGCCTACTGGAT
GGGCCACCGAGAGCCCCAGGGAGTTGACGTGGAGGAGGCTTGAAGTGCCGGACGTGTACCTATGCAGAC
ATTTGTGAGTGAGAAAAGGCAGTGGAGTGCTCAGCTACACTGGCGCCCAAGTCAAAAAGCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG203370 representing NM_022774
Red=Cloning site Green=Tags(s)

MAETREEETVSAEASGFSDDLSDSEFLEFLDLEDAQESKALVNMPGPSSSESLGKDDKPISLQNWKRGLDIL
SPMERFHLKYLVTDLATQNWCELQTAYGKELPGFLAPEKA AVLDTGASIHARELELHDLVTPVTTKE
DAWAIKFLNILLIPTLQSEGHIREFPVGEVEGVLLVGVIDELHYTAKGELELAELKTRRRPMLPLEAQ
KKKDCFOVSLYKYIFDAMVQGVTPASLIHHTKLCLEKPLGPSVLRHAQQGGFSVKSLGDLMELVFLSLT
LSDLPVIDILKIEYIHQETATVLGTEIVAFKEKEVRKVQHYMAYWMGHREPQGV DVEEAWKCRTCTYAD
ICEWRKSGVLSSTLAPQVKKAK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022774

ORF Size: 1119 bp

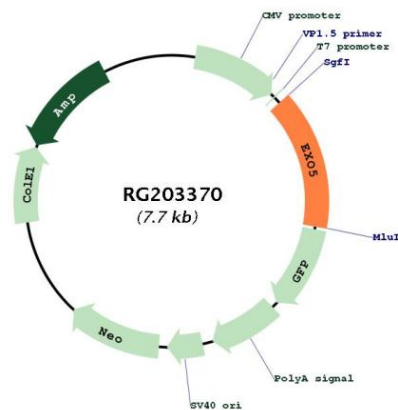
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_022774.1, NP_073611.1</u>
RefSeq Size:	2217 bp
RefSeq ORF:	1122 bp
Locus ID:	64789
UniProt ID:	<u>Q9H790</u>
Cytogenetics:	1p34.2
Gene Summary:	The protein encoded by this gene is a single-stranded DNA (ssDNA)-specific exonuclease that can slide along the DNA before cutting it. However, human replication protein A binds ssDNA and restricts sliding of the encoded protein, providing a 5'-directionality to the enzyme. This protein localizes to nuclear repair loci after DNA damage. [provided by RefSeq, Nov 2016]

Product images:



Circular map for RG203370