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Product datasheet for MR205764

Exo5 (NM_001160043) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exo5 (NM_001160043) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Exo5
Synonyms:	3110037I16Rik; AV297100; Dem1; Exo V; mExo5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205764 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGAGACTGGGGAAGAGGAGACAGCATCAGCAGAAGCCTCAGGGTTTTCAGACTTGAGTGACTCAG
AGTTAGTTGAATTTCTGGATCTGGAAGAAGCCAAAGAATCGGCTGTTTCACTTAGCAAGCCTGGCCCTTC
TGCTGAACTCCCTGGGAAGGATGACAAACCAGTAAGCTTGCAGAACTGGAAAGGGGGATTGGATGTCTTG
TCACCCATGGAGAGATTCCACCTGAAATATTTATATGTCACTGACCTGTGCACTCAGAACTGGTGTGAGT
TGCAGATGGTGTACGGGAAGGAGCTTCCTGGTTCGTTGACACCTGAGAAAGCAGCTGTTTTGGACACTGG
TGCTAGCATCCACCTAGCAAAAGAACTAGAACTTCATGACCTTGTGACAGTCCCCATCGCCACAAAAGAA
GATGCTTGGGCAGTTAAGTTTCTGAACATACTAGCAATGATTCCTGCCCTACAGTCGGAAGGGCGCGTCA
GAGAGTTTCCAGTGTTTGGGGAGGTGGAGGGAATATTTCTTGTTGGAGTCATTGATGAGTTGCACTACAC
ATCCAAGGGGGAACTAGAGCTGGCTGAACTCAAGACACGAAGGCGCCCCGTGCTCCCCCTGCCAGCTCAG
AAAAAGAAAGACTATTTTCAAGTTAGCCTATACAAATATATCTTTGATGCCATGGTACAAGGGAAAGTGA
CTCCTGCTAGCCTAATCCACCACACTAAATTGTGTCTAGACAAGCCACTGGGACCTTCTGTGCTGAGGCA
TGCCAGACAAGGAGGCGTGTCTGTAAAATCTTTGGGTGACCTTATGGAACTGGTTTTCTTGTCTCTTACA
CTGTCTGATCTCCCAGCTATTGATACCCTAAAACTTGAGTATATCCATCAAGAGACTGCCACTATACTGG
GCACAGAGATTGTAGCCTTTGAAGAGAAGGAAGTGAAAAGCAAGGTGCAGCATTACGTGGCCTACTGGAT
GGGCCACCGAGATCCTCAAGGCGTTGATGTGGAGGAGGCATGGAAGTGCCGGACCTGTGACTATGTGGAC
ATCTGCGAGTGGAGGAGGGGCAGTGGAGTGCTCAGCTCATCGTGGGAGCCCAAAGCCAAGAAGTTTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

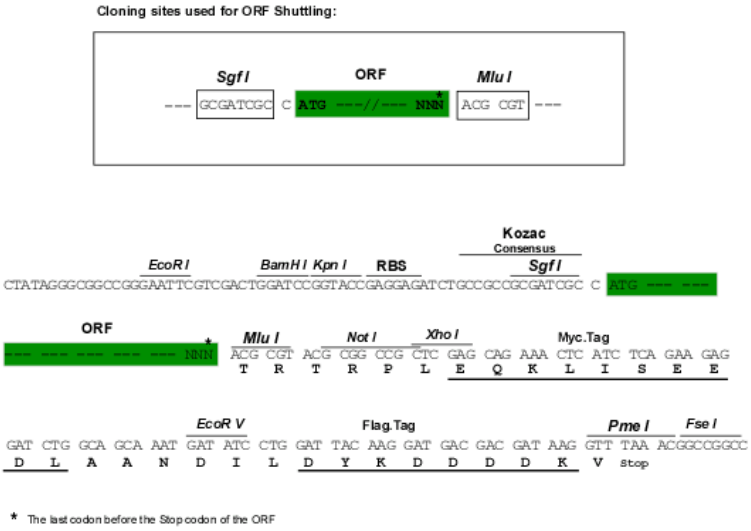
>MR205764 protein sequence
Red=Cloning site Green=Tags(s)

MAETGEEETASAEASGFSDLSDSELVEFLDLEEAKESAVSLSKPGPSAELPGKDDKPVSLQNWKGGLDVL
SPMERFHLKYLYVTDLCTQNWCELQMVYGKELPGSLTPEKAAVLDTGASIHLAKELELHDLVTVPIATKE
DAWAVKFLNILAMIPALQSEGRVREFPVFGEVEGIFLVGVIDELHYTSKGELELAELKTRRRPVLPLPAQ
KKKDYFQVSLYKYIFDAMVQGKVTPASLIHHTKLCLDKPLGPSVLRHARQGGVSVKSLGDLMELVFLSLT
LSDLPAIDTLKLEYIHQETATILGTEIVAFEEKEVKSKVQHYVAYWMGHRDPQGVDVEEAWKCRTCDYVD
ICEWRRGSGVLSSSWEPKAKKFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001160043

ORF Size: 1122 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).

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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.

RefSeq: NM_001160043.1, NP_001153515.1

RefSeq Size: 1969 bp

RefSeq ORF: 1122 bp

Locus ID: 73172

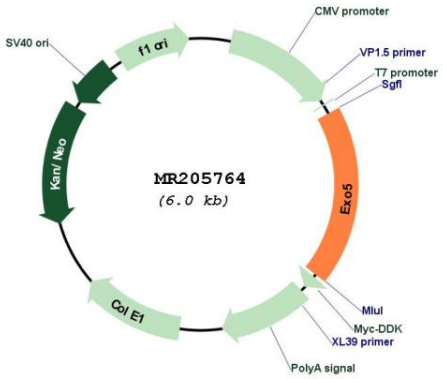
UniProt ID: Q9CXP9

Cytogenetics: 4 D2.2

MW: 41.6 kDa

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]

Product images:



Circular map for MR205764

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