

Product datasheet for MR216014

Exog (NM_172456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exog (NM_172456) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Exog
Synonyms:	AW557704; Endogl1; Endogl2; Engl; ENGL-a; ENGL-B; Engla; Englb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216014 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAAAGAGCTTCGCTTCCCGTCTCAGGGACTCGCGGCGATTTCTGAATGGCTTCTTGCCGGGG
CTGTAGTGGGCGCCGGGAGCGGGCTGACGGCGCTGCAGTTTTTCCGGCGTCCGGACGCGGAATCCGC
GAAGCTGGCGAGGCAGCCACACGAATCTGCAGAAGAAGCTGTCTTGAACAGTTTGGTTTCTTTAGCT
GGAACAGAGACGAGGCGTTACACTAACCACGCCCTGTCTTACGATCAGGCAAACGGGTGCCAGATGGG
TTCTTGAGCATATATCCAAGACAAGATCATCGGTGACGCTGACAGAAAGCATTGTAATTAAGCCGGA
TCCTTCTGTCCCTTCAGCCTTCAGCGCCCTCAATGAAGACTATATCGGGAGTGGCTGGTACGAGGCCAC
ATGGCCCCGCGCAGGAAATAACAAGTTTTCCAGTGAAGCCATGGCAGAAACCTTTTACCTTCTAATATCG
TGCCCTCAGAATTTGATAATAACTCCGGCTACTGGAACAGAATAGAAATGTATTGTCTGAGCTGACGGA
GAGATTTGAAGATGTTTGGATAGTATCAGGACCTTTAACCTTACCTCATACTAGGAATGATGGAACGAAA
ACAGTTAGTTACCAGGTGATTGGTGAGGACAACGTGGCCGTCCTTCGCACCTTTACAAGGTGATCCTGG
CTCGCAGAAGCCCGAATCTACGGAGCCGCTGGCGCTGGGGCCCTTTGTGGTCCAAATAAAGCCATTGG
GTTCCAGTCCCAGTTATCCGAGTTCAGGTGAGCCTCCATGACCTGGAGAAGATGTCAGGTCTGGTGT
TTCCCCGCTGGATAGAAGCAGGGACATCCGGAATATTTGCTCTGTGGACACCTGCAAGCTCCTGGGTT
TCCAGGAATTCACCTGTACCTGAGCAGGAAAGATTGATGGAGCCCGTCTGTGGCCAGACTGGAGAA
GTTTCTGGAAGCTTTGAAGAGCTCAGGGGTGGAACCTGACGATTACTTCTGAGTCGCTATGAGAAAAAG
CTGGAGGAAGTGAAGGCTAAGGAGCAAAGGACGCCAGCTGGAAAAGCAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216014 protein sequence
 Red=Cloning site Green=Tags(s)

MAAKSFASRLRDSRRFLNGFLAGAVVGAAGALTALQFFRRPDAESAKLARQPHEAEEAVLEQFGFPLA
 GTETRRYTNHALSYDQAKRVPRWVLEHISKDKIIGDADRKHKCFKPDSPVSAFSAFNEDYIGSGWSRGH
 MAPAGNNKFSSEAMAETFYLSNIVPQNFNNSGYWNRIEMYCRELTERFEDVWIVSGPLTLPHTRNDGTK
 TVSYQVIGEDNVAVPSHLYKVILARRSPESTEPLALGAFVVPNKAIGFQSQLSEFQVSLHDLEKMSGLVF
 FPRLDRSRDIRNICSVDTCLLGFQFTLYLSTRKIDGARSVARLEKVLKSSSGVEPDDYFLSRYEKK
 LEELKAKEQKDAQLEKQS

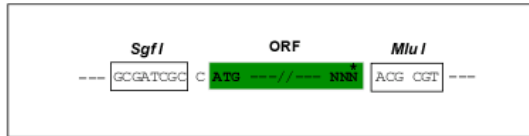
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172456

ORF Size: 1107 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.

RefSeq: [NM_172456.4](#)

RefSeq Size: 3870 bp

RefSeq ORF: 1107 bp

Locus ID: 208194

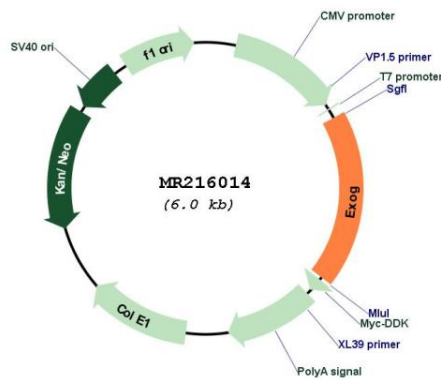
UniProt ID: [Q8C163](#)

Cytogenetics: 9 F3

MW: 41.4 kDa

Gene Summary: Endo/exonuclease with nicking activity towards supercoiled DNA, a preference for single-stranded DNA and 5'-3' exonuclease activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216014