

Product datasheet for **MG216014**

Exog (NM_172456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exog (NM_172456) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Exog
Synonyms:	AW557704; Endogl1; Endogl2; Engl; ENGL-a; ENGL-B; Engla; Englb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216014 representing NM_172456 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGCAAAGAGCTTCGCTTCCCGTCTCAGGGACTCGCGGCGATTTCTGAATGGCTTCTTGCCGGGG
 CTGTAGTGGGCGCCGCGGGAGCGGGGCTGACGGCGCTGCAGTTTTTCCGGCGTCCGGACGCGGAATCCGC
 GAAGCTGGCGAGGCAGCCACACGAATCTGCAGAAGAAGCTGTCTTGGAACAGTTTGGGTTTCCTTTAGCT
 GGAACAGAGACGAGGCGTTACCTAACCACGCCCTGTCTTACGATCAGGCAAAACGGGTGCCAGATGGG
 TTCTTGAGCATATATCCAAGGACAAGATCATCGGTGACGCTGACAGAAAGCATTGTAATTCAAGCCGGA
 TCCTTCTGTCCCTTCAGCCTTCAGCGCCCTCAATGAAGACTATATCGGGAGTGGCTGGTCACGAGGCCAC
 ATGGCCCCCGCAGGAAATAACAAGTTTTCCAGTGAAGCCATGGCAGAAACCTTTTACCTTCTAATATCG
 TGCCTCAGAATTTTGATAATAACTCCGGCTACTGGAACAGAATAGAAATGTATTGTCGTGAGCTGACGGA
 GAGATTGAAGATGTTTGGATAGTATCAGGACCTTTAACCTTACCTCATACTAGGAATGATGGAACGAAA
 ACAGTTAGTTACCAGGTGATTGGTGAGGACAACGTGGCCGTCCTCGCACCTTTACAAGGTGATCCTGG
 CTCGCAGAAGCCCGGAATCTACGGAGCCGCTGGCGCTGGGGGCCCTTTGTGGTGCCAAATAAAGCCATTGG
 GTTCCAGTCCCAGTTATCCGAGTTCAGGTGAGCCTCCATGACCTGGAGAAGATGTCAGGTCTGGTGTTT
 TTCCCCGTCTGGATAGAAGCAGGGACATCCGGAATATTTGCTCTGTGGACACCTGCAAGCTCCTGGGTT
 TCCAGGAATTCACCTGTACCTGAGCAGGAGGAATTGATGGAGCCCGTCTGTGGCCAGACTGGAGAA
 GGTCTGGAAGCTTTGAAGAGCTCAGGGGTGGAACCTGACGATTACTTCTGAGTCGCTATGAGAAAAAG
 CTGGAGGAAGTGAAGGCTAAGGAGCAAAAGGACGCCAGCTGGAAAAGCAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG216014 representing NM_172456
 Red=Cloning site Green=Tags(s)

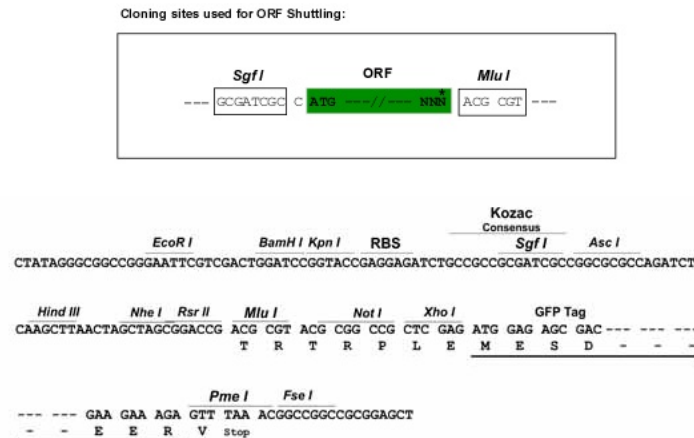
MAAKSFASRLRDSRRFLNGFLAGAVVGAAGAGLTALQFFRRPDAESAKLARQPHESAEEAVLEQFGFPLA
 GTETRRYTNHALSYDQAKRVPWVLEHISKDKIIGDADRKHKCFKPDPSVPSAFSALNEDYIGSGWSRGH
 MAPAGNNKFSSEAMAETFYLSNIVPQNFDNNSGYWNRIEMYCRELTERFEDVWIVSGPLTLPHTRNDGTK
 TVSYQVIGEDNVAVPSHLYKVILARRSPESTEPLALGAFVVPNKAIGFQSQLSEFQVSLHDLEKMSGLVF
 FPRLDRSRDIRNICSVDTKLLGFQEFTLYLSTRKIDGARSVARLEKVLKSSGVPEDDYFLSRYEKK
 LEELKAKEQKDAQLEKQS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172456

ORF Size: 1104 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: [NM_172456.4](#)

RefSeq Size: 3870 bp

RefSeq ORF: 1107 bp

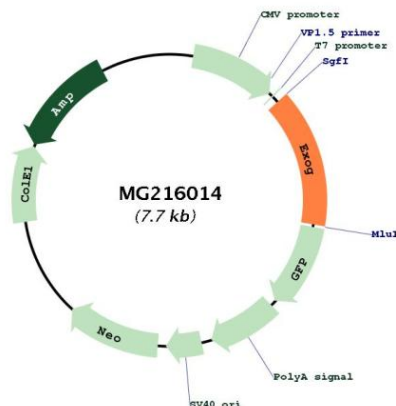
Locus ID: 208194

UniProt ID: [Q8C163](#)

Cytogenetics: 9 F3

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 MG216014