

Product datasheet for **MG216022**

Exog (NM_001172136) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exog (NM_001172136) 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:	>MG216022 representing NM_001172136 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTGGCAGAGACAAAGTGCTGGCGCCCGGAGTCAATGGCTGCAAAGAGCTTCGCTTCCCGTCTCAGG
GACTCGCGGGGATTTCTGAATGGCTTCTGGCCGGGGCTGTAGTGGGCGCCGGGAGCGGGGCTGACGG
CGCTGCAGTTTTCCGGCGTCCGGACCGGAATCCGCGAAGCTGGCGAGGCACACACGGTGCAGCACA
GTGCCTGGTACAGAATTGGCCTTCAAATCTGCAGAAGAAGCTGTCTTGGAACAGTTTGGTTTCTTTAG
CTGGAACAGAGACGAGGCGTTACACTAACCACGCCCTGTCTTACGATCAGGCAAAACGGGTGCCAGATG
GGTTCTTGAGCATATATCCAAGGACAAGATCATCGGTGACGCTGACAGAAAGCATTGTAAATTCAAGCCG
GATCCTTCTGTCCCTCAGCCTTCAAGCCTCAATGAAGACTATATCGGGAGTGGCTGGTACAGAGGCC
ACATGGCCCCGGCAGGAAATAACAAGTTTTCCAGTGAAGCCATGGCAGAAACCTTTTACCTTTCTAATAT
CGTGCCTCAGAAATTTGATAAATACTCCGGCTACTGGAACAGAAATAGAAATGTATTGTCGTGAGCTGACG
GAGAGATTTGAAGATGTTTGGATAGTATCAGGACCTTTAACCTTACCTCATACTAGGAATGATGGAACGA
AAACAGTTAGTTACCAGGTGATTGGTGAGGACAACGTGGCCGTCCTCGCACCTTTACAAGGTGATCCT
GGCTCGCAGAAGCCCGAATCTACGGAGCCGCTGGCGCTGGGGCCCTTTGTGGTCCAAAATAAAGCCATT
GGTTCCAGTCCCAGTTATCCGAGTTCAGGTGAGCCTCCATGACCTGGAGAAGATGTCAGTCTGGTGT
TTTTCCCCGCTGGATAGAAGCAGGGACATCCGGAATATTTGCTCTGTGGACACCTGCAAGCTCCTGGG
TTTCCAGGAATCACTCTGTACCTGAGCACGAGGAAGATTGATGGAGCCCGGTCTGTGGCCAGACTGGAG
AAGTTTCTGGAAGCTTTGAAGAGCTCAGGGGTGGAACCTGACGATTACTTCTGAGTCGCTATGAGAAAA
AGCTGGAGGAAGTGAAGGCTAAGGAGCAAAAGGACGCCAGCTGGAAAAGCAGTCC

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216022 representing NM_001172136
 Red=Cloning site Green=Tags(s)

MRGRDKVLAPASHGKELRFPSQGLAAI SEWLLGRGCSGRRGSGADGA AVFPASGRGIREAGEAATRCST
 VPGTELAFKSAEEAVLEQFGFPLAGTETRRYTNNHALSYDQAKRVPRWVLEHISKDKIIGDADRKHCKFKP
 DPSVPSAFSALNEDYIGSGWSRGHMAPAGNNKF SSEAMAETFFYLSNIVPQNFNNSGYWNRIEMYCRELT
 ERFEDVWIVSGPLTLPHTRNDGTKTVSYQVIGEDNVAVPSHLYK VILARRSPESTEPLALGAFVVPNKAI
 GFQSQLSEFQVSLHDLEKMSGLVFFPRLDRSRDIRNICSVDTC KLLGFQEF TLYLSTRKIDGARSVARLE
 KYLEALKSSGVEPDDYFLSRYEKKLEELKAKEQKDAQLEKQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001172136

ORF Size: 1176 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_001172136.1](#), [NP_001165607.1](#)

RefSeq Size: 3905 bp

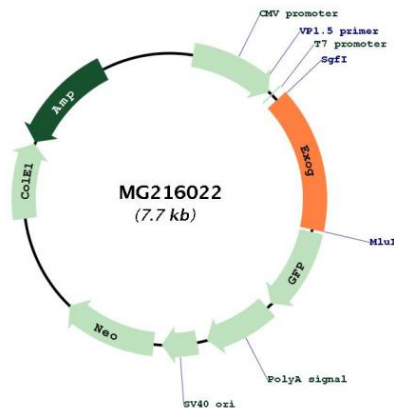
RefSeq ORF: 1179 bp

Locus ID: 208194

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 MG216022