

Product datasheet for **MG210505**

Thap12 (NM_028410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thap12 (NM_028410) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thap12
Synonyms:	2900052B10Rik; Dap4; Prkrir; Rpkrir
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210505 representing NM_028410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAACTTCTGCGCTGCCCCAACTGCACACGGAAGAGCACGCAGTCTGACCTGGCCTTCTTCAGGT
 TCCCGCGGACCCGGCCAGATGCCAGAAGTGGTTGAGAATTGTAGGAGAGCAGACTTAGAAGATAAAAC
 ACCAGATCAACTAAATAAACATTATCGACTTTGTGCCAAACACTTTGAGACCTCTATGATTTGTAGAACT
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 TCCTACAATTAATTCAGAAACCATTTGAAAATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210505 representing NM_028410
 Red=Cloning site Green=Tags(s)

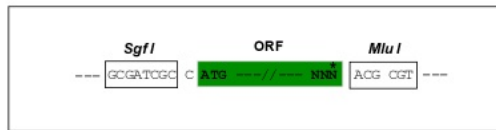
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TRTRPLE - GFP Tag - V

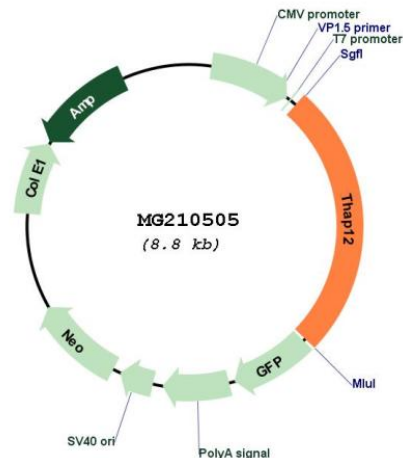
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_028410

ORF Size: 2274 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_028410.2](#)

RefSeq Size: 3478 bp

RefSeq ORF: 2277 bp

Locus ID: 72981

UniProt ID: [Q9CUX1](#)

Cytogenetics: 7 E1

Gene Summary: Upstream regulator of interferon-induced serine/threonine protein kinase R (PKR). May block the PKR-inhibitory function of DNAJC3, resulting in restoration of kinase activity and suppression of cell growth.[UniProtKB/Swiss-Prot Function]