

Product datasheet for **MG214628**

Gm14124 (NM_001142410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Gm14124
Synonyms:	EG640962; ENSMUSG00000074735; Gm10749; OTTMUSG00000015734
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG214628 representing NM_001142410, codon optimized.
Due to the complexity of NM_001142410, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGAGTTACTTACGATGATGTGCATGTTAACTTACCAGGGAGGAATGGGCTCTCCTTGACCCCA
GTCAGAAGAACCTGTATAGGGACGTAATGCTGGAGACATACCGAAACTTGGCCGCCATTGGATATGTGTG
GGAGGATCATAACTGAAGAACATTTGCACATATCTCGCAGGTATGAGCGGCATGAACGGAGCCACACT
GCACAACAGCTCTCCGAGTTCATCCAGTGTGACAAGGCTTTTGCTTTCCAGAGCCACAACCAAGAAAGG
AGAAGATACATAAATGCTGAGACGCCCTATGAGTGAACCAAGTGCAGGAAAATCCTTTGCGAGAAAAATCACA
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GCGGTAAGGCGTTTCGCTGTTCAAGAAGATTGAGGATACATAAGCGGACCCACACGGGAGAGAAGCCCTA
CGAATGTAATCAGTGCAGTAAAGCCTTTAGTTCACCTCCGGATTTCTTACCACAAGAGGACACATACA
GGTGAGAGGCCATACGAGTGAATGAATGTGGTAAGTCTTTCATCCACCGGAGTAATTTCCAGATGCATA
AAAGAACTCACACAGGGGAAAAGCCTTTTTCGAGTGCATCAGTGTGGCAAGAGCTTCGCCAGAACACATA
CCTTCTTCAACAAAAAGGTACATACTGGGAAAAGCCATACGAGTGAAGCATTGCGGCAAGGCTTC
GCTTATTCACAAAACCTCCGAGTGCATGTTTCGCACTCACACTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG214628 representing NM_001142410

Red=Cloning site Green=Tags(s)

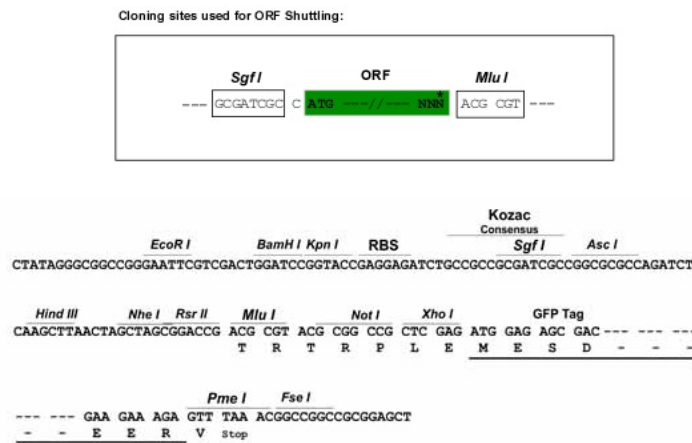
MGRVTYDDVHVNFTRREWALLDPSQKNLYRDVMLETYRNLAAGYVWEDHNTTEHLHISRRYERHERSHT
 AQLSEFIQCDKAFQSHNRKEKIHNAETPYECNQCGKSFARKSHLLRHKRIHTGEKPYACNQCGKDF
 ASPSYLQYHKRVRTGEKPYKCNQCGKAFACSTGLRGHKRTHTEEKLNECNQCDKAFAGQSGLLYHKRTH
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 GEKPYECKQCGKAFACSTVLRHRKRAHTGEKPFECYQCGKSFASKSHLLRHKRIHTGEKPYKCDQCGKDF
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 GEKPYECKQCGKAFACSSKLRSHKRTHTGEKPFECNQCGKSF A I K S H L L R H K R I H T G E K P Y K C D Q C G K D F
 ARPSSLQYHKRVHTGEKPYECKQCGKAFACSRRLRIHKRTHHTGEKPYECNQCGKAFSSPSGFLYHKRTH
 GERPYECNECGKSF I H R S N F Q M H K R T H T G E K P F E C D Q C G K S F A Q N T Y L L Q H K R V H T G E K P Y E C K H C G K A F
 AYSNKL RVHVRTHTK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001142410

ORF Size:

2145 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_001142410.1](#), [NP_001135882.1](#)

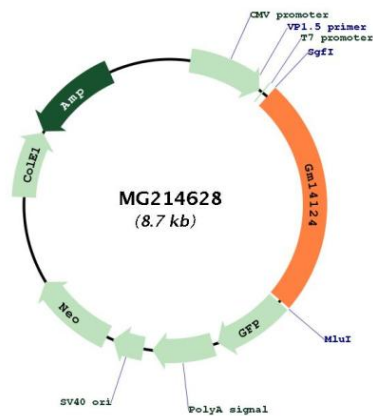
RefSeq Size: 3018 bp

RefSeq ORF: 2148 bp

Locus ID: 100216455

Cytogenetics: 2 G3

Product images:



Circular map for MG214628