OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG221426

Taf4 (NM_001081092) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taf4 (NM_001081092) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Taf4
Synonyms:	135kDa; AI450312; Taf2c1; Taf4a; TAFII130; TAFII135
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG221426 representing NM_001081092, codon optimized.
Due to the complexity of NM_001081092, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCGGGATCCGACCTCTTGGATGAGGTCTTTTTTAACAGCGAGGTGGACGAGAAGGTTGTCAGTG
ATCTGGTGGGATCCCTTGAAAGTCAGCTGGCTGCGTCCGCCGCCCACCATCATCACTTGGCTCCCAGAAC
ACCGGAGCTGAGGGCTGCAGCTGCCGGAGCGCTCGGCAACCACGTCGTATCCGGCTCCCCTGCTGGCGCT
GCCGGCGCCGGACCAGCAGCGTCCGCTGAAGGCGCCCCTGCCGCCGCCCCTGAGCCACCTCCAGCTGGGA
GGGCTAGACCAGCTGGAGGAGGTCCACGGCGCCCGGGATCCAGCTCTCCGAGAAGACTCCTGGTGCCTGC
AGGGCCAGCCCCTGCTCCAGCGAAACTGCGCCCACTGCCCGAGGCTAGCGCCGGACCCTGCCCTGCCGCC
GCCGCCGCAGCCGCAGCTACCGCTGCAGCCGTTGCTGGACCAGACCCGGCTGCAGCCGCTCCACCTGCCG
GTCCAGGCGCGTCTAAGCCCGGCCCCCCGGGGCCGCCCGGGCCCGGAGCCGCACAAACCCTTAACGGTTC
CGCGGCTCCACCTACCGCCCCTCATGCAGCTCCCGCTGTTAGCCCTGTGAACAATGGCCCAGCTCCTCCT
CCAGCTGCAGGGAGCGTGATCCAAGCTGCTCCCGCCCCAGCGGCGCCTAGTCCCCCCGCAGCCCCGGCTC
CTGCCGCCCCTCCACCACCTGCCCCACCTGCGCCCGTGGCCCCCGCTAGACCACCTGGACATCCTGCTGC
CCCTGCCCCCCCCGTGTCACCTGCGGCTGCAGCTGCCGCTGCTGCCGCCGCCGCAGCCGCTCAGAACGGA
GCCGCTCCCGCTCCCGCTGCAGCAAGCGGGGGAGCCGCAGGCCTGGGTCAACCCGGCGCCGGCGCGCAAG
GGGCCAAGGCTGAAGCGCCAAAGCCAGGACCCGGTCCTGGCCCAGGTCCTGCCGCCGCGGCTGCCGCCGC
CGGGGTGGCTGGAGGCGGTGCAGCAGGATCCGTGCTGCTCGGACCAGCCATGCCTGGGGCCCTGCCTGGG
CCTGCCCCAGGGACACCCGCAGGCCTCGCAAAGGGCGCCGCCGCAGCAACACCTTCACTGCCGCGCACCC

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CAGCCGCTACAACCGGCGCAATCCGAGCGACTCTTACACCAACAGTGCTGGCCCCCAGGTTGCCTCAGCC
ACCGCAGAATCCCACTAACATCCAGAACTTCCAGCTTCCGCCCGGCATGGTGCTGGTACGGAGCGAAAAT
GGCCAGCTTCTCATGATCCCACAACAGGCGTTGGCACAGATGCAGGCTCATGCCCAGGCGCAACCACAGT
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ACAGTTCAACCCACCACCACTCTGCAGCGGAGCCCAGGTGTTCAACCACAGCTGGTGCTCGGAGGTAGCG
CTCAGCCCGCATCCTTGGGAACAGCTACCGCTGTTCAGACGGGCACCCCACAACGAACTGTGCCAGGCGC
CTCCACGACTTCCACCGCTGCAACCGAGACAATGGAGAACGTTAAGAAGTGCAAGAGCTTTTTGTCTACG
TTGATCAAACTGGCGAGTTCCGGAAAGCAGAGCACAGAAACTGCCGCTAATGTCAAGGACCTGGTGCAGA
ATCTGCTGGACGGCAAGATTGAGGCCGAGGACTTTACTTCTAGGCTGTACCGAGAGCTGAACTCCAGCCC
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GCCTTTATCCAGCAGAGCCAGCAACAACAGCCACCAGCCTCACAGGCCACAACCGCACTCACCGCCGTTG
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CAGCAGCCACCAAAGCCTGGTGCACTCATTCGACCCCCACAAGTCACCCTGACCCAGACCCCTATGGTGG
CCCTGCGACAGCCCCATAACAGGATCATGTTGACAACCCCCCAGCAAATCCAGCTGAATCAGCTCCAGCC
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TCGCTTCCATGGCCGGCGTCAACCTGTCTGAGGAATCCGCAAGGATTCTCGCCACCAACAGCGAGCTGGT
GGGTACTCTGACTCGCTCTTGCAAAGATGATACATTTCTGCTGCCTGCCCCTCTGCAGCGGAGAATATTG
GAGATTGGGAAGAAGCATGGAATAACAGAGCTGCACCCCGATGTTGTGAGTTATGTCTCCCACGCTACAC
AACAGCGCCTGCAGAACCTTGTGGAAAAGATTTCTGAGACAGCTCAGCAGAAGAACTTTAGTTACAAGGA
TGATGACCGATATGAGCAAGCTAGTGATGTGAGGGCCCAGCTGAAATTCTTCGAGCAGCTTGACCAGATT
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ACAGAGAGATGCGAACCTGACTGCACTGGCAGCAATCGGCCCTAGGAAGAAGCGAAAAGTGGACTGCACA
GGACCTGGGTCAGGAGCCGAAGGCAGTGGACCCGGCGCCGCTGTGCCAGGGGGCTCTGGAGTGGGAACCC
CCAGACAGTTCACTAGGCAGAGAATTACCCGGGTGAATCTCCGAGACTTGATTTTTTGCTTGGAGAACGA
GAGAGAAACCAGCCACAGTTTGCTGTTGTATAAAGCCTTTCTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221426 representing NM_001081092
Red=Cloning site Green=Tags(s)

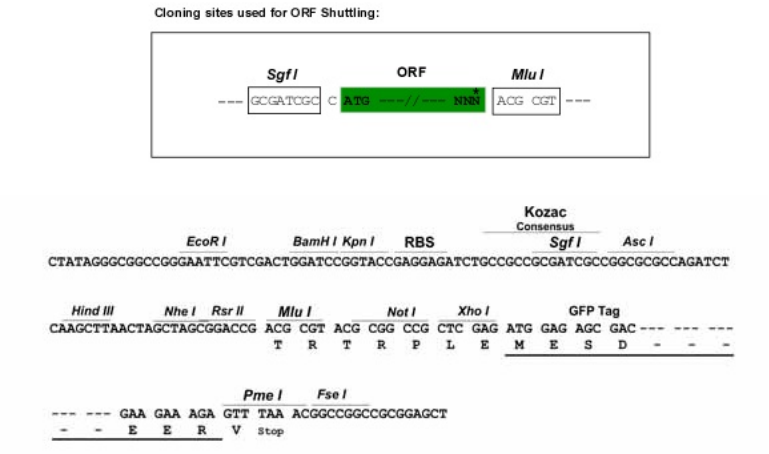
MAAGSDLLDEVFFNSEVDEKVVSDLVGSLESQLAASAAHHHHLAPRTPELRAAAAGALGNHVVSGSPAGA
AGAGPAASAEGAPAAAPEPPPAGRARPAGGGPRRPGSSSPRRLLVPAGPAPAPAKLRPLPEASAGPCPAA
AAAAAATAAAVAGPDPAAAAPPAGPGASKPGPPGPPGPGAAQTLNGSAAPPTAPHAAPAVSPVNNGPAPP
PAAGSVIQAAPAPAAPSPPAAPAPAAPPPPAPPAPVAPARPPGHPAAPAPPVSPAAAAAAAAAAAAAQNG
AAPAPAAASGGAAGLGQPGAGAQGAKAEAPKPGPGPGPGPAAAAAAAGVAGGGAAGSVLLGPAMPGALPG
PAPGTPAGLAKGAAAATPSLPRTPAATTGAIRATLTPTVLAPRLPQPPQNPTNIQNFQLPPGMVLVRSEN
GQLLMIPQQALAQMQAHAQAQPQSTMAPRPATPTGAPPVQISTVQAPGTPIIARQVTPTTIIKQVSQAQT
TVQPTTTLQRSPGVQPQLVLGGSAQPASLGTATAVQTGTPQRTVPGASTTSTAATETMENVKKCKSFLST
LIKLASSGKQSTETAANVKDLVQNLLDGKIEAEDFTSRLYRELNSSPQPYLVPFLKRSLPALRQLTPDSA
AFIQQSQQQQPPASQATTALTAVVLSSSVQRTAGKTAASVTSALQPPVISLTQPTQVGVGKQAPPTPLVI
QQPPKPGALIRPPQVTLTQTPMVALRQPHNRIMLTTPQQIQLNQLQPVPVVKPTVLPGTKALSTVSAQAA
AAQKNKLKEPGGGSFRDDDDINDVASMAGVNLSEESARILATNSELVGTLTRSCKDDTFLLPAPLQRRIL
EIGKKHGITELHPDVVSYVSHATQQRLQNLVEKISETAQQKNFSYKDDDRYEQASDVRAQLKFFEQLDQI
EKQRKDEQEREILMRAAKSRSRQEDPEQLRLKQKAKEMQQQELAQMRQRDANLTALAAIGPRKKRKVDCT
GPGSGAEGSGPGAAVPGGSGVGTPRQFTRQRITRVNLRDLIFCLENERETSHSLLLYKAFLK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1931_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081092

ORF Size: 3126 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001081092.1, NP_001074561.1

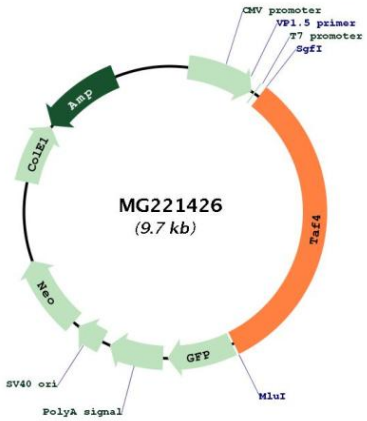
RefSeq Size: 4422 bp

RefSeq ORF: 3129 bp

Locus ID: 228980

Cytogenetics: 2 H4

Product images:



Circular map for MG221426