

Product datasheet for **MG226204**

Epha6 (NM_007938) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Epha6 (NM_007938) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Epha6
Synonyms: Ehk2; Hek12; m-ehk2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226204 representing NM_007938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAATCCCCTCGCTCCAGCCGCCAGGAGCTCCCCGGCGGCAGGCAGCATCGTCCCCGCAAGCAG
 CTGCTCCAGCACCTGGGCAGCCTGGACCCTCGTGCCCTGCGCACCAGGCTCGCGCGGGGGCGCCCCGG
 GACTTCCCCTGCGGACCGGGTGGAGGAGGAAGAGGAGGAGGAGGAAGAAGAAGAGAGCTTGGTTCAGGAC
 CCCCACGCTACTAGGAACACCTGGCTGCGCTGCTGCCACTTCTTTTAAAGGAGGAGAAGAGAACCAACCA
 GAGCCATGGGGGGCTGCGAAGTCCGGGAATTTCTTTTGAATTTGGTTTCTTCTGCCCCGCTAAACGGC
 TTGGACCGCGACTGCAGTCACGTCTCCAACCAAGTTGTGTTGCTTGATACAACCACAGTGATGGGAGAA
 CTAGGATGGAAAACATATCCATTAATGGTGGGATGCCATTACTGAAATGGATGAACACAATAGGCCCA
 TACATACATACCAGGTATGCAATGTGATGGAACCAAAACGAGAACAACCTGGCTTCGTAACCTGGATCTC
 TCGTGATGCTGCACAGAAAATTTATGTGGAAATGAAGTTCACACTGAGGGATTGTAAACAGCATCCCATGG
 GTCTTGGGGACTTGTAAGAAACCTTTAACCTGTATTATAGAATCCGATGAATCCCATGGGACAAAAT
 TCAAGCCAAGCCAATATAAAGATCGACACAATTGCTGCTGATGAGAGTTTTACTCAGATGGATTTGGG
 TGACCGCATCCTTAAACTCAACACTGAAATCCGTGAGGTGGGGCCTATAGAAAGGAAAGGATTTTATTTG
 GCTTTTCAAGATATTGGAGCATGCATCGCTCTGGTCTCAGTCCGAGTTTTCTACAAAAATGCCCTTCA
 CCGTGCGGAACCTTGCTATGTTTCTGATACCATCCCAAGGGTTGATTCTTCTCTTTGGTTGAAGTGCG
 GGGCTCATGTGTAAGAGTGCTGAGGAGCGAGATACTCCTAAACTCTACTGTGGAGCTGATGGGGATTGG
 CTTGTTCTCTTGGAAAGGTGATCTGCAGTACAGGGTATGAAGAAATCGAGGGTTCTTGCCATGCTTGCA
 GACCAGGATTCTACAAAGCATTGCTGGGAACACAAAATGTTCCAATGCCCTCCACACAGCTCAACCTA
 CGTGGAAGCAACGTCAGTCTGTCTGTTGAAAAGGGTTACTTCCGGGCAGAAAAAGACCCACCTTCTATG
 GCATGCACTAGACCACCTCAGCTCCTAGAAATGTGGCTTTTAAACATCAATGAAACAGCCCTTATTTTGG
 AATGGAGCCACCCAGTGACACAGGAGGAGAAAAGATCTCACATACAGTGAATCTGTAAGAAATGTGG
 TTTAGACTACTACCAAGTGTGAGGACTGTGGTGGAGGACTCCGCTTCATCCCAAGACACACTGGACTGATC



AACAATTCTGTGGTAGTACTGGACTTTGTGTCTCACGTCAATTATACCTTTGAAATAGAAGCCATGAATG
 GAGTTTCTGAGTTGAGCATCTCTCCAAGCCATTCACAGCTATTACAGTGACTACAGATCACGATGCACC
 TTCTCTGATTGGTATGATGAGAAAGGACTGGGCATCTCAGAACAGCCTTGCTCTATCGTGGAAGCACCCT
 GCATTTTCCAATGGAGCTATTCTGGACTATGAGATCAAGTACTACGAGAAAGAGCATGAGCAGCTCACCT
 ATTCCTCCACGAGGTCCAAGGCCCAAGCGTCATCGTACGGGCCCAAGCCCGCCACCAGTACATATT
 TCACATCCGAGTGAGGACGGCGACAGGCTACAGTGGCTACAGTCAGAAGTTTGAATTTGAAACAGGAGAT
 GAAACTTCTGACATGGCGCAGAACAAGGCGAGATTCTGGTCATAGCCACTGCAGCCGTCGGGGATTCA
 CTCTTTAGTCATCCTCACCCCTGTTCTTCTCATCACTGGGAGGTGCAATGGTACATAAAGGCCAAAAT
 GAAGTCAGAAGAGAAGAGAAGAAGTCACTTACAGAACGGCCACCTGCGCTTCCCGGAATTAAAACATAC
 ATTGATCCAGACACCTATGAAGACCCATCCCTAGCAGTCCACGAATTTGCAAAGAGATTGATCCTTCAA
 GAATTCGATTGAGAGAGTATTGGAGCAGGTGAATTTGGAGAAGTCTGCAAGTGGCGTTTGAAGACACC
 AGGGAAAAGGAGATCCCAGTTGCAATTTAAAACATTGAAAGGTGGCCACATGGACCGACAAAAGAAGAGAT
 TTTCTAAGAGAAGCTAGCATCATGGTCTGTTGACCACCCAAACATCATTGCGCTAGAAGTGTGTCA
 CTAAGAAGATCCTTCCCGCGATTGGGGTGAAGCCTTCTGCCCCAGCTTCTAAGGGCTGGGTTTTTAAA
 TGGCATCCAAGCGCCACATCCAGTACTGCAGGAGGCTCTCTGCCCCAGGATTCTGCAGGTCGCGCA
 GTAATGATCGTAGTAGATATATGGAGAATGGATCACTGGACTCCTTTTTGCGGAAGCATGATGGCCACT
 TCACCGTCATCCAGTTGGTCTGGCATGCTGAGGGGCATCGCGTCAGGCATGAAGTATCTTTCTGACATGGG
 ATATGTTTCATCGAGATCTTCCCGCAGGAACATACTGGTGAACAGCAACTTAGATGCAAGGTCTCTGAT
 TTTGGTCTCTCCCGAGTCTGGAAGATGATCCAGAAGCAGCTTATAACAACCGGAGGGGAAAATCCCTA
 TACGGTGGACAGCCCCAGAAGCTATTGCTTACAGAAAGTTCTCTCAGCCAGTGCAGCGTGGAGTACGG
 GATTGTGATGTGGGAGGTGATGTCCTATGGAGAGAGACCGTACTGGGAAATGTCCAACAGGATGTTATC
 TTGTCCATTGAAGAAGTTACCGACTTCTGCTCCGATGGGCTGCCACCGTCTCTGCACCAGTGCATGC
 TCCACTGCTGGCAGAAGGAGAGAAACACAGGCCAAAATCACTGACATCGTCAGCTTCTTGCACAAATG
 GATCCCGCAACCCAGTGGCCTTACACCGCTGGTGGAGGACATCCTTGAATGCCAGAATCCCTGGTGAT
 GTTCTGAATATCCATTGTTGTGACAGTGGTACTGGCTGGATTCTATAAAGATGGGGCAATACAAGA
 GTAACCTCATGGCAGCGGTTTTACAACGTTTGTCTGATTTTACGAATGAGCATCGATGATATTAGGCG
 AATTGGAGTATTCTCATTGGACATCAGAGACGAATAGTCAGCAGCATACAACTTTACGTTTACATATG
 ATGCACATACAGGAAAAGGATTTTCATGTA

ACGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226204 representing NM_007938
 Red=Cloning site Green=Tags(s)

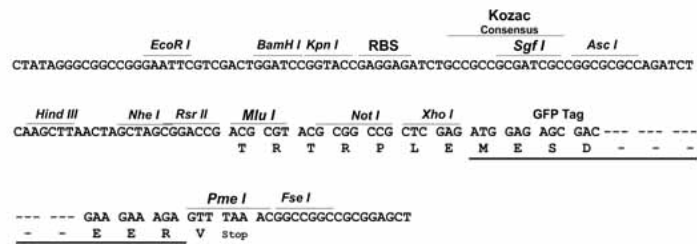
MQFPSPPAARSSPAAQAASSPQAAAPAGQPGPSPCAHRASRGGRPGTSPADRVEEEEEEEEEESLVQD
 PHATRNTWLRCCFFLRRRREPTRAMGGCEVREFLLQGFFLPLLTAWTGDCSHVSNQVLLDTTTTVMGE
 LGWKTYPLNGWDAITEMDEHNRPIHTYQVCNMEPNQNNWLRTNWISRDAAQKIYVEMKFLTRDCNSIPW
 VLGTCKETFNLYYIESDESHGTFKPSQYIKIDTIAADESFTQMDLGDRILKLNTEIREVGPIERKGFYL
 AFQDIGACIALVSVRVFYKCPFTVRNLAMFPDTIPRVDSSSLVEVRGSCVKSAEERDTPKLYCGADGDW
 LVPLGRICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKPPHSSTYVEATSVCHCEKGYFRAEKDPPSM
 ACTRPPSAPRNVAFNINETALILEWSPSDTGGRKDLTYSVICKKGLDTTQCEDCGGLRFIPRHGLI
 NNSVVVLDVFSVHNYTFEIEAMNGVSELSISPKPFTAITVTTDHDAPSLIGMMRKDWASQNSLALSWQAP
 AFSNGAILDYIEIKYYEKEHEQLTYSSTRSKAPSVIVTGLKPATTYIFHIRVRTATGYSYSGKFEFETGD
 ETSDMAEQGQILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMKSEEKRRTHLQNGHLRFPGIKTY
 IDPDTYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPGKREIPVAIKTLKGGHMDRQRRD
 FLREASIMGQFDHPNIIIRLEGVVTKRSPFAIGVEAFCSFLRAGFLNGIQAPHPVTAGGSLPPRIPAGRP
 VMIVVEYMENGLSDSFLRKHDGHFTVIQLVGMRLGIASGMKYLSDMGYVHRDLAARNILVNSNLVCKVSD
 FGLSRVLEDDPEAAYTTTGGKIPIRWTAPEAIAIRKFSASDAWSYIVMWEVMSYGERPYWEMSNDQVI
 LSIEEGYRLPAPMGCPPSLHQLMLHCWQKERNHRPKFTDIVSFLDKLIRNPSALHTLVEDILVMPESPGD
 VPEYPLFVTVDWLDSEIKMGQYSNFMAAGFTTFDLISRMSIDDIRRIGVILIGHQRRIVSSIQTLRLHM
 MHIQEKGFHV

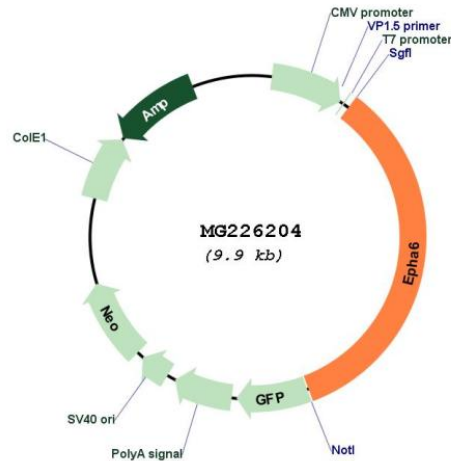
TRPLE - GFP Tag - V

Restriction Sites: SgfI-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_007938

ORF Size: 3390 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_007938.2](#), [NP_031964.2](#)

RefSeq Size: 4213 bp

RefSeq ORF: 3393 bp

Locus ID: 13840

Cytogenetics: 16 C1.3