

Product datasheet for **RC213963**

EPHA8 (NM_001006943) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | EPHA8 (NM_001006943) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | EPHA8 |
| Synonyms: | EEK; EK3; HEK3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC213963 representing NM_001006943
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCCCGCCGGGGCCGCTGCCCCCTGCGCTCTGGTCTGTCACGGCCGCGGGCGGGCCACCT
 GCGTGTCCGCGCGCGCGGAAGTGAATTTGCTGGACACGTCGACCATCCACGGGGACTGGGGCTGGCT
 CACGTATCCGGCTCATGGGTGGGACTCCATCAACGAGGTGGACGAGTCTTCCAGCCCATCCACAGTAC
 CAGTTTGAACGTCATGAGCCCAACAGAACAAGTGGTGGCAGCAGCTGGTCCCCGAGACGGCG
 CCCGGCGCTCTATGCTGAGATCAAGTTTACCCTGCGGACTGCAACAGCATGCCTGGTGTGCTGGGCAC
 CTGCAAGGAGACCTTCAACCTCTACTACCTGGAGTCGGACCGGACCTGGGGCCAGCACACAAGAAAGC
 CAGTTCCTCAAAATCGACACCATTGGCGCCGACGAGAGCTTACAGGTGCCGACCTTGGTGTGCGGCGTC
 TCAAGCTCAACACGGAGGTGCGCAGTGTGGTCCCCTCAGCAAGCGGGCTTCTACTGGCCTCCAGGA
 CATAGGTGCCTGCCTGGCCATCCTCTCTCCGCATCTACTATAAGAAGTGCCCTGCCATGGTGCACAAT
 CTGGCTGCCTTCTCGGAGGACGTGACGGGGCCGACTCGTCTCACTGGTGGAGGTGAGGGGCCAGTGCG
 TGGCGCACTCAGAGGAGCGGGACACACCAAGATGTAAGTGCAGCGCGGAGGGCGAGTGGCTCGTGCCAT
 CGGCAATGCGTGTGAGTGCAGTGCAGGACGCGGGATGCCTGTGTGGCCTGTGAGCTGGGCTTC
 TACAAGTCAGCCCTGGGACCAGCTGTGTGCCGCTGCCTCCCCACAGCCACTCCGCAGCTCCAGCCG
 CCCAAGCTGCCACTGTGACCTCAGTACTACCGTGCAGCCCTGGACCCGCCCTCCTCAGCTGCACCCG
 GCCACCTCGGCACCAAGTGAACCTGATCTCCAGTGTGAATGGGACATCAGTACTCTGGAGTGGGCCCT
 CCCCTGGACCCAGGTGGCCGAGTGCATCACCTACAATGCCGTGTGCCCGCTGCCCTGGGCCACTGA
 GCGCTGCGAGGCATGTGGGAGCGGCACCCGCTTTGTGCCAGCAGACAAGCCTGGTGCAGGCCACT
 GCTGGTGGCCAACTGCTGGCCACATGAACACTCCTTCTGGATCGAGGCGCTCAATGGCGTGTCCGAC
 CTGAGCCCGAGCCCGCGGGCGCTGTGGTCAACATCACACGAACAGGCAGGTAGGCGGAGAAACT
 CCGTCCCGCAGCGTCTGGTCCCCAGCTTCCCCTGCCTCAGACCCATCCAGGGATCAGAGCTCTGCCGG
 GGACGTGCTGTGGCCTTAGGCAAGTGCCTCTGGCCCTGCGCTCTCACCAGGACCCAGAGCTGGAG
 GCTTTCATTGCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213963 representing NM_001006943
 Red=Cloning site Green=Tags(s)

MAPARGRLPPALWVVTAAAAAATCVSAARGEVNLDTSTIHGDWGLTYPAHGWSINEVDESFPQIHTY
 QVCNVMSPNQNNWLRTSWVPRDGARRVYAEIKFTLRDCNSMPGVLGTCKETFNLYYLES DRDLGASTQES
 QFLKIDTIAADESFTGADLGVRRLLNTEVRSVGPLSKRGFYLAHQDQIGACLAILSLRIYYKCPAMVRN
 LAAFSEAVTGADSSSLVEVRGQCVRHSEERDTPKMYCSAEGEWLVPIGKCVCSAGYEERRDACVACELGF
 YKSAPGDQLCARCPPHSHSAAPAAQACHCDLSYYRAALDPPSSACTRPPSAPVNLISVNGTSVTLEWAP
 PLDPGGRSDITYNAVCRRCPPWALSRCEACSGTRFVPPQTSLVQASLLVANLLAHMNSFWIEAVNGVSD
 LSPEPRRAAVVNITTNQAGRRRNSVPQRPASPASDPSRDQSSAGDVLWAFRQVPLWPCAPHQDPELE
 ALHCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4162_a09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001006943

ORF Size: 1485 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_001006943.3](#)

RefSeq Size: 1866 bp

RefSeq ORF: 1488 bp

Locus ID: 2046

UniProt ID: [P29322](#)

Cytogenetics: 1p36.12

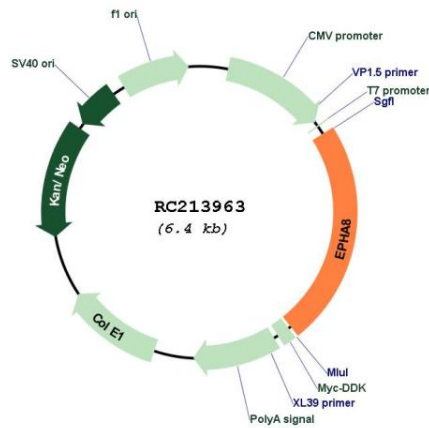
Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Axon guidance

MW: 53.9 kDa

Gene Summary: This gene encodes a member of the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. The protein encoded by this gene functions as a receptor for ephrin A2, A3 and A5 and plays a role in short-range contact-mediated axonal guidance during development of the mammalian nervous system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC213963