

Product datasheet for **RC600045**

EPHA8 (NM_020526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPHA8 (NM_020526) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	EPHA8
Synonyms:	EEK; EK3; HEK3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RC600045 representing leader sequence plus the extracellular domain region of NM_020526
 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
 CGATCGCC

ATGGCCCCGCCCGGGGCGCCTGCCCCCTGCGCTCTGGGTCGTACGGCCGCGGGCGGGCGGCCACCT
 GCGTGTCCGCGCGCGCGGCGAAGTGAATTTGCTGGACACGTGACCATCCACGGGACTGGGGCTGGCT
 CACGTATCCGGCTCATGGGTGGGACTCCATCAACGAGGTGGACGAGTCTTCCAGCCATCCACACGTAC
 CAGGTTTGCAACGTATGAGCCCCAACAGAACAAGTGGCTGCGCAGGACTGGTCCCCGAGACGGCG
 CCCGGCGCTCTATGCTGAGATCAAGTTTACCCTGCGGACTGCAACAGCATGCCTGGTGTGCTGGGCAC
 CTGCAAGGAGACCTTCAACCTCTACTACCTGGAGTCGGACCGGACCTGGGGCCAGCACACAAGAAAGC
 CAGTTCCTCAAAATCGACACCATTGCGGCCGACGAGAGCTTACAGGTGCCGACCTTGGTGTGCGGCGTC
 TCAAGCTCAACACGGAGGTGCGCAGTGTGGTCCCCTCAGCAAGCGGGCTTCTACTGGCCTTCCAGGA
 CATAGGTGCCTGCCTGGCCATCCTCTCTCCGCATCTACTATAAGAAAGTCCCTGCCATGGTGCACAAT
 CTGGCTGCCTTCTCGGAGGACGTGACGGGGCCGACTCGTCTCACTGGTGGAGGTGAGGGGCCAGTGCG
 TGCGGCACTCAGAGGAGCGGGACACACCAAGATGACTGCAGCGCGGAGGGCGAGTGGCTCGTGCCAT
 CGGCAATGCGTGTGAGTGCCTGACGAGGAGCGGGGATGCCTGTGTGGCCTGTGAGCTGGGCTTC
 TACAAGTCAGCCCTGGGACCAGCTGTGTGCCGCTGCCCTCCCACAGCCACTCCGACGTCCAGCCG
 CCCAAGCTGCCACTGTGACCTCAGTACTACCGTGCAGCCCTGGACCCGCGTCTCAGCTGCACCCG
 GCCACCTCGGCACCAGTGAACCTGATCTCCAGTGTGAATGGGACATCAGTACTGAGTGGGCCCT
 CCCCTGGACCCAGGTGGCCGAGTACATCACCTACAATGCCGTGTGCCGCGTCCCCCTGGGCACTGA
 GCCGCTGCGAGGCATGTGGGAGCGGCACCCGCTTTGTGCCAGCAGACAAGCCTGGTGCAGGCCAGCCT
 GCTGGTGGCAACCTGCTGGCCACATGAATACTCCTTCTGGATCGAGGCCGTAATGGCGTGTCCGAC
 CTGAGCCCCGAGCCCCGCGGGCGCTGTGGTCAACATCACACGAACCAGGCAGCCCCGTCCAGGTGG
 TGGTGTCCGTCAAGAGCGGGCGGGCAGACCAGCGTCTCGTGTGTGGCAGGAGCCGAGCAGCCGAA
 CGGCATCATCCTGGAGTATGAGATCAAGTACTACGAGAAGGACAAGGAGATGCAGAGCTACTCCACCCTC
 AAGGCCGTACCACCAGAGCCACCGTCTCCGCGCTCAAGCCGGGACCCGCTACGTGTTCCAGGTCCGAG
 CCCGCACCTCAGCAGGCTGTGGCCGCTCAGCCAGGCCATGGAGGTGGAGACCGGAAACCCCGCCCCG
 CTATGACACCAGGACC

ACGCGTTCAGGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTAATGAGATC
 TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence:

>RC600045 representing signal peptide plus the extracellular domain region of NM_020526
 Red=Cloning sites Green= DDK and 6XHIS Tags

MAPARGRLPPALWVVTAAAAAATCVSAARGEVNLDTSTIHGDWGWLTYPAGWDSINEVDESFPQIHTY
 QVCNVMSPNQNNWLRTSWVPRDGARRVYAEIKFTLRDCNSMPGVLGTCKETFNLYLESDDLSTGASTQES
 QFLKIDTIAADESFTGADLGVRRLKLNTEVRSVGPLSKRGFYLAQDQIGACLAAILSLRIYKPCPAMVRN
 LAAFSEAVTGADSSSLVEVRGQCVRHSEERDTPKMYCSAEGEWLVPIGKCVCSAGYEERRDACVACELGF
 YKSAPGDQLCARCPPHSHSAAAPAAQACHCDLSYYRAALDPPSSACTRPPSAPVNLISVNGTSTVLEWAP
 PLDPGGRSDITYNAVCRCPWALSRCACGSGTRFVPPQTSLVQASLLVANLLAHMNYSFWIEAVNGVSD
 LSPEPRRAAVVNIITTNQAAPSQVVVIRQERAGQTSVSLWQEPQNGIILEYEIKYKEMQSYSTL
 KAVTTRATVSGLKPGRYVYFQVRARTSAGCGRF SQAMEVETGKPRPRYDTRT

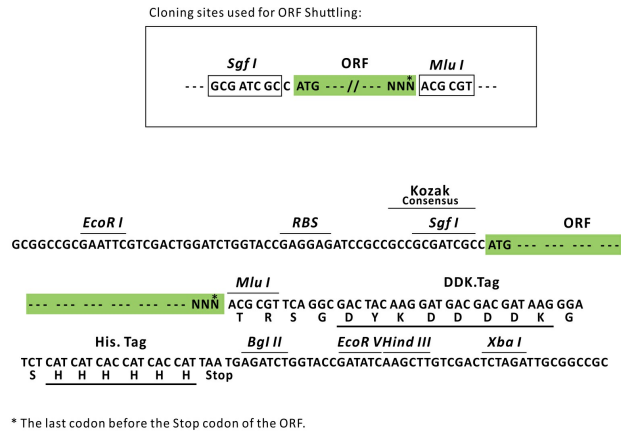
TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms:

https://cdn.origene.com/chromatograms/mk8117_f10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- ACCN:** NM_020526
- ORF Size:** 1626 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 extra cellular domain of the protein 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_020526.3](#), [NP_065387.1](#)
- RefSeq Size:** 4996 bp
- RefSeq ORF:** 3018 bp
- Locus ID:** 2046
- UniProt ID:** [P29322](#)
- Cytogenetics:** 1p36.12

Domains:	ptkinase, EPH_Ibd, TyrKc, SAM, S_TKc, FN3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
MW:	59.4 kDa
Gene Summary:	<p>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]</p>