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Product datasheet for RC220352

EPHA8 (NM_020526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPHA8 (NM_020526) 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)

ORF Nucleotide Sequence:

>RC220352 representing NM_020526
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCCCGCCCGGGGCCGCCTGCCCCCTGCGCTCTGGGTCGTCACGGCCGCGGCGGCGGCGGCCACCT
GCGTGTCCGCGGCGCGCGGCGAAGTGAATTTGCTGGACACGTCGACCATCCACGGGGACTGGGGCTGGCT
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CTGCAAGGAGACCTTCAACCTCTACTACCTGGAGTCGGACCGCGACCTGGGGGCCAGCACACAAGAAAGC
CAGTTCCTCAAAATCGACACCATTGCGGCCGACGAGAGCTTCACAGGTGCCGACCTTGGTGTGCGGCGTC
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AAGGCCGTCACCACCAGAGCCACCGTCTCCGGCCTCAAGCCGGGCACCCGCTACGTGTTCCAGGTCCGAG
CCCGCACCTCAGCAGGCTGTGGCCGCTTCAGCCAGGCCATGGAGGTGGAGACCGGGAAACCCCGGCCCCG
CTATGACACCAGGACCATTGTCTGGATCTGCCTGACGCTCATCACGGGCCTGGTGGTGCTTCTGCTCCTG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC220352 representing NM_020526
Red=Cloning site Green=Tags(s)

MAPARGRLPPALWVVTAAAAAATCVSAARGEVNLLDTSTIHGDWGWLTYPAHGWDSINEVDESFQPIHTY
QVCNVMSPNQNNWLRTSWVPRDGARRVYAEIKFTLRDCNSMPGVLGTCKETFNLYYLESDRDLGASTQES
QFLKIDTIAADESFTGADLGVRRLKLNTEVRSVGPLSKRGFYLAFQDIGACLAILSLRIYYKKCPAMVRN
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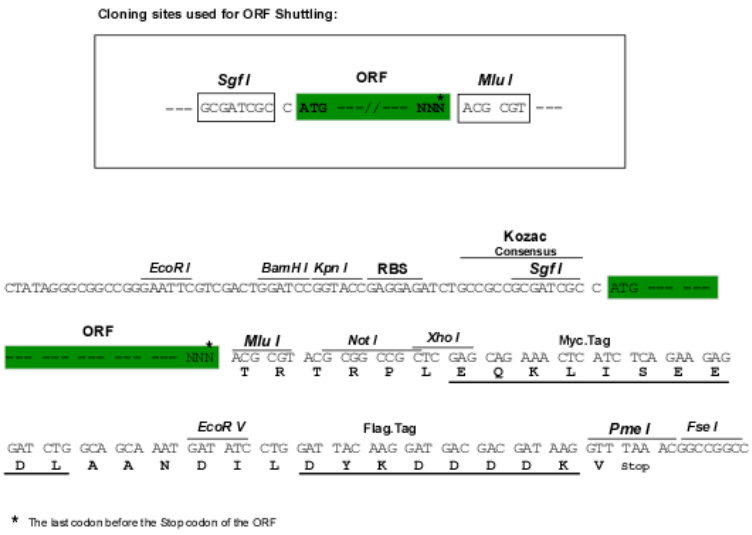
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_c08.zip

Restriction Sites: SgfI-MluI

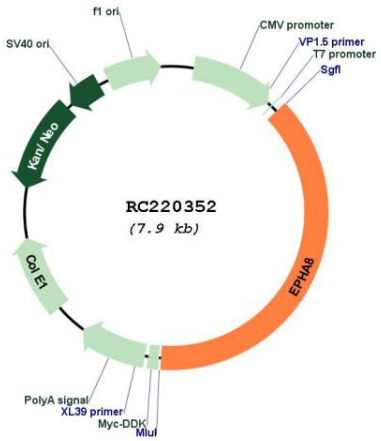
Cloning Scheme:



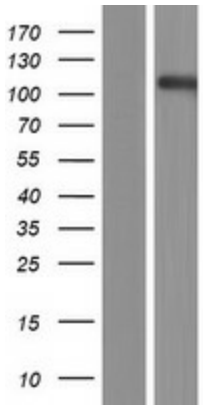
ACCN:	NM_020526
ORF Size:	3015 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_020526.5
RefSeq Size:	4996 bp
RefSeq ORF:	3018 bp
Locus ID:	2046

UniProt ID:	P29322
Cytogenetics:	1p36.12
Domains:	pkinase, EPH_lbd, TyrKc, SAM, S_TKc, FN3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
MW:	108.1 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 RC220352



Western blot validation of overexpression lysate (Cat# [LY412430]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220352 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).