

Product datasheet for RC237964

Eph receptor A6 (EPHA6) (NM_001278300) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A6 (EPHA6) (NM_001278300) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPHA6
Synonyms:	EHK-2; EHK2; EK12; EPA6; HEK12; PRO57066
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237964 representing NM_001278300 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACTCTCCATTTCAAGTGACAAAAGTACTGGCTTAATGAAAAGTGGGACTTTATTGCCTCAG
CTTCTGACATGGCAGCAGAACAAGGACAGATTCTCGTGATAGCCACCGCCGCTGTTGGCGGATCACTCT
CCTCGTCATCCTCACTTTATTCTTCTTGATCACTGGGAGATGTCAGTGGTACATAAAAGCCAAGATGAAG
TCAGAAGAGAAGAGAAGAAACCCTTACAGAATGGGCATTTGCGCTTCCCGGAATTAAGCACTACATTG
ATCCAGATACATATGAAGACCCATCCCTAGCAGTCCATGAATTTGCAAAGGAGATTGATCCCTCAAGAA
TCGTATTGAGAGAGTCAATGGGGCAGGTGAATTTGGAGAAGTCTGTAGTGGGCGTTTGAAGACACAGGG
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TAAGAGAAGCTAGTATCATGGGCCAGTTTGACCATCCAACATCATTGCGCTAGAAGGGGTTGTCACCAA
AAGATCCTTCCCGCCATTGGGGTGGAGGCGTTTTGCCCCAGCTTCTGAGGGCAGGGTTTTTAAATAGC
ATCCAGGCCCCGATCCAGTGCCAGGGGAGGATCTTTGCCCCAGGATTCCTGCTGCCAGCCAGTAA
TGATTGTGGTGAATATATGGAGAATGGATCCCTAGACTCCTTTTGGCGAAGCATGATGGCCACTTCC
AGTCATCCAGTTGGTCCGAATGCTCCGAGGCATTGCATCAGGCATGAAGTATCTTTCTGATATGGGTTAT
GTTTCATCGAGACCTAGCGGCTCGGAATATACTGGTCAATAGCAACTTAGTATGCAAAGTTTCTGATTTTG
GTCTCTCCAGAGTCTGGAAAGTATCCAGAAGCTGCTTATACAACAAGTACCCACAAATCACAACAA
AGAGCAATCAGAACTGGTTAAAGAAGATGGTCTGGAAAGCTTGTGTGAGCAGTGCAGTCCAGCTCTGGT
TATGGTACTGGACTGGTCTCATGTGGAAGAGAAAACAGAGGGCCATGGGAGCCAGTGGCCAGACCAGAA
AGCAATGTGACAAGAGAGATAACCCTCCAACAGACCTCTTCCAACTCTAACACTTAACCTCTGCTATTC
TGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237964 representing NM_001278300
 Red=Cloning site Green=Tags(s)

MKDSPFQVTKLYWLNEKWDFIASASDMAAEQGQILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMK
 SEEKRRNHLQNGHLRFPGIKTYIDPDTYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPG
 KREIPVAIKTLKGGHMDRQRDFLEASIMGQFDHPNIIRLEGVVTKRSFPAIGVEAFPCPSFLRAGFLNS
 IQAPHPVPGGSLPPRIIPAGRPVMIIVVEYMENGLSDSFLRKHDGHFTVIQLVGMRLGIASGMKYLSDMGY
 VHRDLAARNILVNSNLVCKVSDFLSRVLEDDPEAAAYTTTRPTNHNKEQSELVKEDGLESLSCEQCESSSG
 YGTGLVLMWKRNRAMGASGQTRKQCDKRDNPPTDLFQTLTLNLCYSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

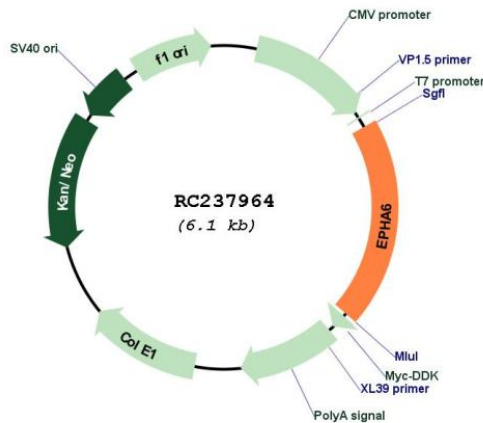
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278300

ORF Size:	1194 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:	<ol style="list-style-type: none">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_001278300.2
RefSeq Size:	1746 bp
RefSeq ORF:	1197 bp
Locus ID:	285220
UniProt ID:	Q9UF33
Cytogenetics:	3q11.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
MW:	44.9 kDa
Gene Summary:	Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling (By similarity).[UniProtKB/Swiss-Prot Function]