

Product datasheet for RC237855

Eph receptor A6 (EPHA6) (NM_001278301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A6 (EPHA6) (NM_001278301) 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:	>RC237855 representing NM_001278301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGCAATCCCCTCGCCTCCAGCCGCGAGGAGCTCCCCGGCGCCGAGGCAGCGTCCTCCTCGAAGCAG
CTGCACCTGCAACTGGGCAGCCTGGACCCTCGTGCCCTGTTCCCGGACCTCGCGCAGGGGGCGCCCGG
GACACCCCTGCGGGCCGGTGGAGGAGGAAGAGGAGGAGGAGGAAGAAGACGTGGACAAGACCCCAT
CCTACCCAGAACACCTGCCTGCGCTGCCGCCACTTCTCTTTAAGGGAGAGAAAAGAGAGCCTAGGAGAA
CCATGGGGGGCTGCGAAGTCCGGGAATTTCTTTGCAATTTGGTTTCTTCTTGCCTCTGCTGACAGCGTG
GCCAGGCGACTGCAGTACGTCCTCCAACAACCAAGTTGTGTTGCTTGATACAACAACTGTACTGGGAGAG
CTAGGATGGAAAACATATCCATTAATGGGTGGGATGCCACTGAAATGGATGAACATAATAGGCCCA
TTCACACATACCAGGTATGTAATGTAATGGAACCAACCAACCAACCAACTGGCTTCGTACAACTGGATCTC
CCGTGATGCAGCTCAGAAAATTTATGTGAAATGAAATTCACACTAAGGGATTGTACAGCATCCCATGG
GTCTTGGGGACTTGCAAAGAAACATTTAATCTGTTTTATGGAATCAGATGAGTCCACGGAATTAAT
TCAAGCCAAACCAAGTATACAAGATCGACACAATTGCTGCTGATGAGATTTTACCAGATGGATTTGGG
TGATCGCATCCTCAAACCAACTGAAATTCGTGAGGTGGGGCCTATAGAAAGGAAAGGATTTTATCTG
GCTTTTCAAGACATTGGGCGTGCATTGCCCTGTTTTAGTCCGTTTTCTACAAGAAATGCCCTTCA
CTGTTCTGTAACCTGGCCATGTTTCTGATACCATTCCAAGGGTTGATTCTCTCTTTGGTTGAAGTACG
GGGTTCTGTGTGAAGAGTGCTGAAGAGCGTGACACTCCTAACTGTATTGTGGAGCTGATGGAGATTGG
CTGTTCTCTTGGAAAGTGCATCTGCAGTACAGGATATGAAGAAATTGAGGGTTCTTGCCATGGAGCCT
CCAAGGCCGCTGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1137 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_001278301.2
RefSeq Size:	1306 bp
RefSeq ORF:	1140 bp
Locus ID:	285220
Cytogenetics:	3q11.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
MW:	43 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]