

## Product datasheet for **RC600043**

### Eph receptor A6 (EPHA6) (NM\_001080448) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A6 (EPHA6) (NM_001080448) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	Eph receptor A6
Synonyms:	EHK-2; EHK2; EK12; EPA6; HEK12; PRO57066
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RC600043 representing leader sequence plus the extracellular domain region of NM\_001080448

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCGCCG  
CGATCGCC

ATGCAATTCCTCGCCTCCAGCCGCGAGGAGCTCCCGGCGCCGAGGCAGCGTCTCTCCGAAGCAG  
CTGCACCTGCAACTGGGAGCCTGGACCCTCGTGCCCTGTTCCCGGACCTCGCGCAGGGGGCGCCCGG  
GACACCCCTGCGGGCCGGGTGGAGGAGGAAGAGGAGGAGGAAGAAGACGTGGACAAGGACCCCAT  
CCTACCCAGAACCTGCCTGCGCTGCCGCCACTTCTCTTTAAGGGAGAGGAAAAGAGAGCCTAGGAGAA  
CCATGGGGGGCTGCGAAGTCCGGGAATTTCTTTTGCAATTTGGTTTCTTTCCTGCTGCTGACAGCGTG  
GCCAGGCGACTGCAGTCACGTCTCCAACAACCAAGTTGTGTTGCTTGATAACAACACTGTACTGGGAGAG  
CTAGGATGGAACATATCCATTAATGGGTGGGATGCCATCACTGAAATGGATGAACATAATAGGCCCA  
TTCACACATACCAGGTATGTAATGTAATGGAACCAAAACAAAACAACTGGCTTCGTACAACCTGGATCTC  
CCGTGATGCAGCTCAGAAAATTTATGTGAAATGAAATTCACACTAAGGGATTGTAACAGCATCCCATGG  
GTCTTGGGGACTTGCAAAGAAACATTTAATCTGTTTTATATGGAATCAGATGAGTCCCACGGAATTAAT  
TCAAGCCAAACAGTATACAAAGATCGACACAATTGCTGCTGATGAGAGTTTTACCCAGATGGATTTGGG  
TGATCGCATCCTCAAACCTCAACACTGAAATTCGTGAGGTGGGCTATAGAAAGGAAAGGATTTTATCTG  
GCTTTTCAAGACATTGGGGCGTGCAATGCCCTGGTTTCAGTCCGTGTTTTCTACAAGAAATGCCCTTCA  
CTGTTTCGTAACCTGGCCATGTTTCTGATACCATTCCAAGGTTGATTCTCCTCTTTGGTTGAAGTACG  
GGGTTCTTGTGTAAGAGTGTGTAAGAGCGTGACACTCCTAAACTGTATTGTGGAGCTGATGGAGATTGG  
CTGGTTCTCTTGAAGGTGCATCTGCAGTACAGGATATGAAGAAATGAGGGTTCTTGCCATGCTTGCA  
GACCAGGATTCTATAAAGCTTTTGTCTGGGAACACAAAATGTTCTAAATGTCTCCACACAGTTTAACATA  
CATGGAAGCAACTTCTGTCTGTGCTGAGTGTAAAAGGTTATTTCCGAGCTGAAAAAGACCCACCTTCTATG  
GCATGTACCAGGCCACCTTCAGCTCCTAGGAATGTGGTTTTAACATCAATGAAACAGCCCTTATTTTGG  
AATGGAGCCCAAGTACACAGGAGGAGAAAAGATCTCACATACAGTGAATCTGTAAGAAATGTGG  
CTTAGACACCAGCAGTGTGAGGACTGTGGTGGAGGACTCCGCTTCATCCCAAGACATACAGGCCTGATC  
AACAAATCCGTGATAGTACTTGACTTTGTGTCTCACGTGAATTACACCTTTGAAATAGAAGCAATGAATG  
GAGTTTCTGAGTTGAGTTTTTCTCCAAGCCATTACAGCTATTACAGTGACCACGGATCAAGATGCACC  
TTCCTGATAGGTGTGGTAAGGAAGGACTGGGCATCC

ACGCGTTCAGGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA

**Protein Sequence:**

>RC600043 representing signal peptide plus the extracellular domain region of NM\_001080448

Red=Cloning sites Green= DDK and 6XHIS Tags

MQFPSPPAARSSPAPQAASSSEAAAPATGQPGPSCPVPGTSTRRGRPGTPPAGRVEEEEEEEEDVDKDPH  
PTQNTCLRCRHFSLRERKREPRRTMGGCEVREFLLQFGFFLPLL TAWPGDCSHVSNQVLLDTTTTVLGE  
LGWKTYPLNGWDAITEMDEHNRIHTYQVCNMEPNQNNWLRTNWI SRDAAQKIYVEMKFLTRDCNSIPW  
VLGTCKETFNLFYMESESHGIKFKPNQYTKIDTIAADESFTQMDLGDRILKLNTEIREVGPIERKGFYL  
AFQDIGACIALVSVRVFYKPCPTVRNLA MFPDTIPRVDSSSLVEVRGSCVKS AEERDTPKLYCGADGDW  
LVPLGRICSTGYEEIEGSCHACRPGFYKAFAGNTKCSKCPPHSLTYMEATSVCQCEKGYFRAEKDPPSM  
ACTRPPSAPRNVFNINETALILEWSPSDTGGRKDLTYSVICKKGLDTSQCEDCGGLRFIPRHTGLI  
NNSVIVLDFVSHVNYTFEIEAMNGVSELSFSPKPFITVTTDQDAPSLIGVVRKDWAS

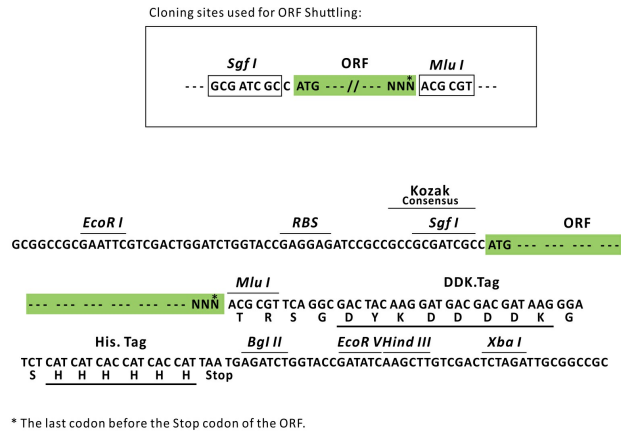
TRSGTRSGDYKDDDDKGSHHHHH

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8117\\_f08.zip](https://cdn.origene.com/chromatograms/mk8117_f08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001080448

**ORF Size:** 1647 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\\_001080448.2](#), [NP\\_001073917.2](#)

**RefSeq Size:** 3677 bp

**RefSeq ORF:** 3393 bp

**Locus ID:** 285220

**Cytogenetics:** 3q11.2

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	61.1 kDa
<b>Gene Summary:</b>	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]