

Product datasheet for **RC600040**

Eph receptor A3 (EPHA3) (NM_182644) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Eph receptor A3 (EPHA3) (NM_182644) Human Tagged ORF Clone |
| Tag: | DDK-His |
| Symbol: | Eph receptor A3 |
| Synonyms: | EK4; ETK; ETK1; HEK; HEK4; TYRO4 |
| Mammalian Cell Selection: | None |
| Vector: | pCMV6-XL5-DDK-His (PS100068) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RC600040 representing leader sequence plus the extracellular domain region of NM_182644

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

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGGATTGCAGCTCTCCATCCTCCTCTCTCAGCTGCTCTGTTCTCGACAGCTTCGGGAACTGATTC
CGCAGCCTTCCAATGAAGTCAATCTACTGGATTCAAAAACAATTCAAGGGGAGCTGGGCTGGATCTTTA
TCCATCACATGGGTGGGAAGAGATCAGTGGTGTGGATGAACATTACACACCCATCAGGACTTACCAGGTG
TGCAATGTCATGGACCACAGTCAAAAACAATTGGCTGAGAACAACTGGTCCCCAGGAACTCAGCTCAGA
AGATTTATGTGGAGCTCAAGTTCACCTCTACGAGACTGCAATAGCATTCCATTGGTTTTAGGAACTTGCAA
GGAGACATTCAACCTGTACTACATGGAGTCTGATGATGATCATGGGGTGAATTTTCGAGAGCATCAGTTT
ACAAAGATTGACACCATTGCAGCTGATGAAAGTTTCACTCAAATGGATCTTGGGGACCGTATTCTGAAGC
TCAACTGAGATTAGAGAAGTAGTCCCTGTCAACAAGAAGGGATTTTATTTGGCATTTCAGATGTTGG
TGCTTGTGTTGCCTTGGTGTCTGTGAGAGTATACTTCAAAAAGTCCCATTTACAGTGAAGAATCTGGCT
ATGTTTCCAGACACGGTACCCATGGACTCCCAGTCCCTGGTGGAGGTTAGAGGGTCTTGTGTCAACAATT
CTAAGGAGGAAGATCCTCCAAGGATGACTGCAGTACAGAAGGCGAATGGCTTGTACCCATTGGCAAGTG
TTCCTGCAATGCTGGCTATGAAGAAAGAGGTTTTATGTGCCAAGCTTGTGCGACCAGGTTTCTACAAGGCA
TTGGATGGTAATATGAAGTGTGCTAAGTGCCCGCTCACAGTTCTACTCAGGAAGATGGTTCAATGAACT
GCAGGTGTGAGAATAATTACTCCGGGCAGACAAAAGCCCTCCATCCATGGCTTGTACCCGACCTCCATC
TTCACCAAGAAATGTTATCTCTAATAATAACGAGACCTCAGTTATCCTGGACTGGAGTTGGCCCTGGAC
ACAGGAGGCCGGAAGATGTTACCTTCAACATCATATGTAATAAATGTGGGTGGAATATAAACAGTGTG
AGCCATGCAGCCCAAATGTCGCTTCCCTCCTCGACAGTTTGGACTCACCAACACCACGGTGACAGTGAC
AGACCTTCTGGCACATACTAACTACACCTTGGAGATTGATGCCGTTAATGGGGTGTGAGACTGAGCTCC
CCACCAAGACAGTTTGTGCGGTGAGCATCACAATAATCAGGCTGCTCCATCACCTGCTGACGATTA
AGAAAGATCGGACCTCCAGAAATAGCATCTCTTTGCTGCGCAAGAACCTGAACATCCTAATGGGATCAT
ATTGGACTACGAGGTCAAATACTATGAAAAGCAGGAACAAGAAACAAGTTATACCATTCTGAGGGCAAGA
GGCACAAATGTTACCATCAGTAGCCTCAAGCCTGACACTATATACGATTCCAAATCCGAGCCCGAACAG
CCGCTGGATATGGGACGAACAGCCGAAGTTTGTAGTTTGAAGTCCAGACTGTATGTATTATTTCAA
TGCAGTC

ACGCGTTCAGGGGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence:

>RC600040 representing signal peptide plus the extracellular domain region of NM_182644

Red=Cloning sites Green= DDK and 6XHIS Tags

MDCQLSILLLLSCSVLDSFGELIPQPSNEVNLDSKTIQGELGWSYPSHGWEIISGVDEHYTPIRTYQV
CNVMDHSQNNWLRNWNVPRNSAQKIYVELKFTLRDCNSIPLVLGCKETFNLYYMESDDDHGKVFREHQF
TKIDTIAADESFTQMDLGDRILKLNTEIREVGPVNKGFYLAQDVGACVALVSVRVYFKKCPFTVKNLA
MFPDTPMDSQSLVEVRGSCVNNNSKEEDPPRMYCSTEGEWLVPIGKCSNAGYEERGFMCQACRPGFYKA
LDGNMKAACPPHSSTQEDGSMNRCENNYFRADKPPSMACTRPPSSPRNVISINETSVIDLWSWPLD
TGGRKDVTFNIIICKKCGWNIKQCEPCSPNVRFLPRQFGLTNTTVTVDLLAHTNYTFEIDAVNGVSELSS
PPRQFAAVSITTNQAAPSPVLTIKKDRTSRNSISLSWQEPEHPNGIILDYEVKYEKQEETSITILRAR
GTNVTISSLKPDTIYVFQIRARTAAGYGTNSRKFEFETSPDCMYFNAV

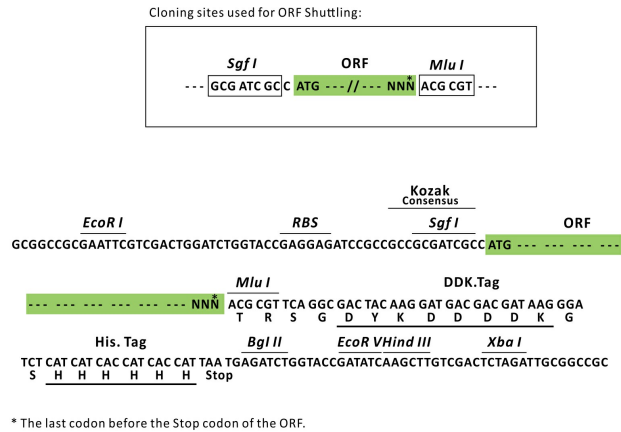
TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms:

https://cdn.origene.com/chromatograms/mk8117_f05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_182644

ORF Size: 1617 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_182644.2](#), [NP_872585.1](#)

RefSeq Size: 2684 bp

RefSeq ORF: 1620 bp

Locus ID: 2042

UniProt ID: [P29320](#)

Cytogenetics: 3p11.1

| | |
|--------------------------|--|
| Protein Families: | Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane |
| Protein Pathways: | Axon guidance |
| MW: | 60.9 kDa |
| Gene Summary: | <p>This gene belongs to 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. This gene encodes a protein that binds ephrin-A ligands. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]</p> |