

Product datasheet for **SC105885**

Eph receptor A4 (EPHA4) (AF075040) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Eph receptor A4 (EPHA4) (AF075040) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Eph receptor A4 |
| Synonyms: | HEK8; SEK; TYRO1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for AF075040, the custom clone sequence may differ by one or more nucleotides |

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TGCTATCTGGCCTCACAGCCCTCCTGTTGATTACAAAGCCCGTGAAGAAAACAGAACACACCCTCCT
CAGTTCGGTCTAAATGTGTTTCTCTGCTTCAATTACACCAGTTCGGGGCAAAGACACTGATGAAACAA
CACCCATACCTGAAAAGAATAAATGTGTGACTTCAAATCCCCTTTCGCAGTGAAAGAAACAGCAAACAC
TTAAGATTCAGCATCTGTTCTCCAGTTGCACTGAGGAATGCACTGTCTCGCAGCACCAGCTCTGCAGAGC
CCTTGCCCCAGACTCTTGGCGTTTTATTTATATGTATTTCCATATTTTCATTCTGTGTGCTACTGCTGC
ATTGGTGTGGCAGCAAGTGACCAAATGCTACAGGTCTTACTATGGACACCAGGTCAGGTGCAACCACACA
AAACAAAGCCAGTTCATGAGCTGCCTATGATATGCATTGCGGAAGTAACATTTTACCCAGGGTGTGCCA
TTGCAGTGATATAAATATATTTTTTTCTTAGACTAAAAAAAAA
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| 5' Read Nucleotide Sequence: | >OriGene 5' read for AF075040 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCACACTTGCCTAACTATCTT GTGGATAGTGGGCTGTGACAATCTGGAATAGAGAACGTTACACTTCGCTCCTTTAAAGA AGCGACCCAGATCTGCAAGGGAGTAGATTCTGCTATCTTGGCCTCACAGCCCTTCTGT TGATTACAAAGCCCGTGAAGAAAACAGAACACACCCTCCTCAGTTCCGTCTAAATGTGT TTCTTCTGCTTCAATTACACCAGTTCTGGGGCAAAGACACTGATGAAACAACACCCATAC CTGAAAAGAATAAATGTGTGACTTCAAATCCCCTTTCGCAGTGAAAGAAAACAGCAAACA CTTAAGATTTCAGCATCTGTTCTCCAGTTGCACTGAGGAATGCACTGTCTCGCAGACCAG CTCTGCAGAGCCCTTGCCCCAGACTCTTTGCGGTTTTATTATATGTATTTCATATTTT ATTCCTGTGTGCTCACTGTGCATTGGTGTGGCAGCAAGTGACCAAATGCTACAGGTCTTA CTATGGACACCAGGTCAGGTGCAACCACAAAAACAAAGCCAGTCCATGAGCTGCCTAT GATATGCATTGCGGAAGTAACATTNTACCCANGGGTGTGCNCATTGCAGTGATATAAATA TATTNTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTACATANNGT GTGAGTGTGTCTGTATGCGTGCCTGTCTGTGTGCCGNTGTGTGTATGTGCGTANCTCA TGCTTANGACTACCCATGAATGTGTGGATGCTACTNGNAGAGTTCTGGTTTNCACCCAG TTNCAGATGGAAGACTACTGATACAGTGGACCTGGAGACCATCCCCTTGAANNGACACCC NNAATGTTTCAGCATCCTGGATCTACCCCTNCTGGATTTACACCGTTTTTTGTANCTGTC ACACTACCTTATAGAATTCTAGCN |
| Restriction Sites: | NotI-NotI |
| ACCN: | AF075040 |
| Insert Size: | 2750 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | AF075040.1 |
| RefSeq Size: | 534 bp |
| RefSeq ORF: | 534 bp |
| Locus ID: | 2043 |
| Cytogenetics: | 2q36.1 |
| Protein Families: | Druggable Genome, Protein Kinase, Transmembrane |
| Protein Pathways: | Axon guidance |

Gene Summary:

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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]