

Product datasheet for **SC310005**

Eph receptor A5 (EPHA5) (NM_182472) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A5 (EPHA5) (NM_182472) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPHA5
Synonyms:	CEK7; EHK-1; EHK1; EK7; HEK7; TYRO4
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182472, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGGCTCGGGGCCCGGGGTGCGGGACGCCGGCGGCCCAAGCGGCGGGCGAC
ACCCCATCACCCAGCGTCCCTGGCCGGCTGCTACTCTGCACCTCGACGGGCTCCCTC
TGGACGTGCCTTCTCCTGTGCGCCGCACTCCGGACCTCTGGCCAGCCCAGCAACGAA
GTGAATTTATTGGATTACGCACGTGTCATGGGGACCTGGGATGGATTGCTTTTCAAAA
AATGGGTGGGAAGAGATTGGTGAAGTGGATGAAAATTATGCCCTATCCACACATACAA
GTATGCAAAGTATGGAACAGAATCAGAATAACTGGCTTTTGACCAGTTGGATCTCCAAT
GAAGGTGCTTCCAGAATCTTCATAGAACTCAAATTTACCCTGCGGGACTGCAACAGCCTT
CCTGGAGGACTGGGGACCTGTAAGGAAACCTTTAATATGTATTACTTTGAGTCAGATGAT
CAGAATGGGAGAAACATCAAGGAAAACCAATACATCAAAAATTGATACCATTGCTGCCGAT
GAAAGCTTTACAGAACTTGATCTTGGTGACCGTGTATGAAAAGTGAATACAGAGGTGAGA
GATGTAGGACCTTAAGCAAAAAGGGATTTTATCTTGGCTTTTCAAGATGTTGGTGCTTGC
ATTGCTCTGGTTTCTGTGCGTGTATACTATAAAAAATGCCCTTCTGTGGTACGACACTTG
GCTGTCTTCCCTGACACCATCACTGGAGCTGATCTTCCCAATTGCTCGAAGTGTGAGGC
TCCTGTGTCAACCATTCTGTGACCGATGAACCTCCAAAATGCACTGCAGCGCCGAAGGG
GAGTGGTGGTGCCCATCGGAAATGCATGTGCAAGGCAGGATATGAAGAGAAAAATGGC
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AAATGTCCACCTCACAGTTATACCCATGAGGAAGCTTCAACCTCTTGTGTCTGTGAAAAG
GATTATTTTCAAGAGAGAGTCTGATCCACCACAATGGCATGCACAAGACCCCTCTGCT
CCTCGGAATGCCATCTCAAATGTTAATGAAACTAGTGTCTTTCTGGAATGGATTCCGCT
GCTGACACTGGTGAAGGAAAGACGTGTCATATTATATTGCATGCAAGAAGTGAACCTCC
CATGCAGGTGTGTGAGGAGTGTGGCGTGCATGTCAGGTACCTTCCCCGCAAAGCGGC
CTGAAAAACACCTCTGTCATGATGGTGGATCTACTCGCTCACAAAACTATACCTTTGAG
ATTGAGGCAGTGAATGGAGTGTCCGACTTGAGCCAGGAGCCCGCAGTATGTGTCTGTA
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GCAAAAAACAGCATCTCTTTGTCTTGGCAAGAACCAGATCGTCCCAATGGAATCATCCTA
GAGTATGAAATCAAGTATTTGAAAAGGACCAAGAGACCAGCTACACGATTATCAAATCT
AAAGAGACAACCTACTGACAGAGGGCTTGAACACAGCTTCAGTTTATGTCTTCCAAAT
CGAGCAGTACAGCAGCAGGCTATGGTGTCTTCAAGTGAAGATTTGAGTTTGAACACC
CCAGTGTTCAGCATCCAGCGATCAAAGCCAGATTCTGTAATTGCTGTGTCTGTGACA

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GTGGGAGTCATTTTGTGGCAGTGGTTATCGGGCTCCTCCTCAGTGGAAGGCGGTGTGGC
TACAGCAAAGCAAAACAAGATCCAGAAGAGGAAAAGATGCATTTTCATAATGGGCACATT
AAACTGCCAGGAGTAAGAACTTACATTGATCCACATACCTATGAGGATCCCAATCAAGCT
GTCCACGAATTTGCTAAGGAGATAGAAGCATCATGTATCACCATTGAGAGAGTTATTGGA
GCAGGTGAATTTGGTGAAGTTTGTAGTGGACGTTTGAACTACCAGGAAAAAGAGAATTA
CCTGTGGCTATCAAAACCCTTAAAGTAGGCTATACTGAAAAGCAACGCAGAGATTTCTTA
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GTGACCAAAAGTAAACCAGTGATGATCGTGACAGAGTATATGGAGAATGGCTCTTTAGAT
ACATTTTTGAAGAAAAACGATGGGCAGTTCACTGTGATTGAGCTTGTGGCATGCTGAGA
GGTATCTCTGCAGGAATGAAGTACCTTTCTGACATGGGCTATGTGCATAGAGATCTTGCT
GCCAGAAACATCTTAATCAACAGTAACCTTGTGTGCAAAGTGTCTGACTTTGGACTTTCC
CGGGTACTGGAAGATGATCCCGAGGCAGCCTACACCACAAGGGGAGGAAAAATCCAATC
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AGTTATGGAATAGTAATGTGGGAAGTTGTGCTTATGGAGAGAGACCCTACTGGGAGATG
ACCAATCAAGATGTGATTAAGCGGTAGAGGAAGGCTATCGTCTGCCAAGCCCCATGGAT
TGTCTGTCTCTATCAGTTAATGCTGGATTGCTGGCAGAAAAGAGCGAAATAGCAGG
CCCAAGTTTGATGAAATAGTCAACATGTTGGACAAGCTGATACGTAACCCAAGTAGTCTG
AAGACGCTGGTTAATGCATCCTGCAGAGTATCTAATTTATTGGCAGAACATAGCCCACTA
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ACAGAGATTTTTCATGGAAAATGGATACAGTTCAATGGACGCTGTGGCTCAGGTGACCTTG
GAGGATTTGAGACGGCTTGGAGTGACTCTGTGCGGTCACCAGAAGAAGATCATGAACAGC
CTTCAAGAAATGAAGGTGCAGCTGGTAAACGGAATGGTGCCATTGTAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_182472
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_182472.1](#), [NP_872272.1](#)
- RefSeq Size:** 3283 bp
- RefSeq ORF:** 3048 bp
- Locus ID:** 2044

UniProt ID: [P54756](#)

Cytogenetics: 4q13.1-q13.2

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. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (2) uses an alternate splice site and lacks an alternate exon in the coding region compared to variant 3. The resulting protein (isoform b) is shorter but has the same N- and C-termini compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.