

## Product datasheet for **SC317153**

### Eph receptor A7 (EPHA7) (NM\_004440) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A7 (EPHA7) (NM_004440) Human Untagged Clone
Tag:	Tag Free
Symbol:	Eph receptor A7
Synonyms:	EHK-3; EHK3; EK11; HEK11
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_004440 edited
ATGGTTTTTCAAACCTCGGTACCCCTTCATGGATTATTTATGCTACATCTGGCTGCTCCGC
TTTGCACACACAGGGGAGGCGCAGGCTGCGAAGGAAGTACTACTGCTGGATTCTAAAGCA
CAACAAACAGAGTTGGAGTGGATTTCTCTCCACCAATGGGTGGGAAGAAATAGTGGT
TTGGATGAGAATAACCCCGATACGAACATACCAGGTGTCCAAGTCATGGAGCCCAAC
CAAAACAACTGGCTGCGGACTAACTGGATTTCAAAGGCAATGCACAAAGGATTTTTGTA
GAATTGAAATTCACCCTGAGGGATTGTAAACAGTCTTCTGGAGTACTGGGAACCTGCAAG
GAAACATTTAATTTGTACTATTATGAAACAGACTATGACACTGGCAGGAATATAAGAGAA
AACCTCTATGTAAAAATAGACACCATTGCTGCAGATGAAAGTTTTACCCAAGGTGACCTT
GGTGAAAGAAAGATGAAGCTTAACACTGAGGTGAGAGAGATTGGACCTTTGTCCAAAAAG
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GAAGCGGAAAACCCCCAGGATGCACTGCAGTGCAGAAGGAGAATGGTTAGTCCCATT
GGAAAATGTATCTGCAAAGCAGGCTACCAGCAAAAAGGAGACACTTGTGAACCCTGTGGC
CGTGGGTTCTACAAGTCTTCTCTCAAGATCTTCAAGTCTCTCGTTGTCCAACTCACAGT
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AACGATGTGACCTACAGAATATTGTGTAAGCGGTGCAGTTGGGAGCAGGGCGAATGTGTT
CCCTGTGGGAGTAACATTGGATACATGCCCCAGCAGACTGGATTAGAGGATAACTATGTC
ACTGTCATGGACCTGCTAGCCCACGCTAATTATACTTTTGAAGTTGAAGCTGTAATGCA
GTTTCTGACTTAAGCCGATCCCAGAGGCTCTTTGCTGCTGTCAGTATCACCAGTGGTCAA
GCAGTCCCTCGCAAGTGAAGTGGAGTAATGAAGGAGAGAGTACTGCAGCGGAGTGTGAG
CTTTCCTGGCAGGAACCGAGCATCCCAATGGAGTCATCACAGAATATGAAATCAAGTAT
TACGAGAAAGATCAAAGGGAACGGACCTACTCAACAGTAAAAACCAAGTCTACTTCAGCC
TCCATTAATAATCTGAAACCAGGAACAGTGTATGTTTTCCAGATTCGGGCTTTTACTGCT
GCTGGTTATGAAATTACAGTCCAGACTTGATGTTGCTACACTAGAGGAAGCTACAGGT
AAAATGTTTGAAGCTACAGCTGTCTCCAGTGAACAGAATCCTGTTATTATCATTGCTGTG
GTTGCTGTAGCTGGGACCATCATTTTGGTTCATGGTCTTTGGCTTCATCATTGGGAGA
AGGCACTGTGGTTATAGCAAAGCTGACCAAGAAGCGGATGAAGAGCTTTACTTTTCAATTT
AAATTTCCAGGCACAAAACCTACATTGACCCTGAAACCTATGAGGACCCAAATAGAGCT
GTCCATCAATTCGCAAGGAGCTAGATGCCTCCTGTATTAATAATTGAGCGTGTGATTGGT
GCAGGAGAATTCGGTGAAGTCTGCAGTGGCCGTTTGAACCTCCAGGGAAAAGAGATGTT
GCAGTAGCCATAAAAACCTGAAAGTTGGTTACACAGAAAAACAAAGGAGAGACTTTTTG
TGTGAAGCAAGCATCATGGGGCAGTTTGACCACCCGAATGTTGTCCATTTGGAAGGGTT
GTTACAAGAGGGAAACCAGTCAATGATAGTAATAGAGTTCATGGAAAATGGAGCCCTAGAT
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CGAGTTATAGAGGATGATCCAGAAGCTGTCTATACAACACTGGTGGAAAAATCCAGTA
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AGCTATGGAATAGTCATGTGGGAAGTTATGTCTTATGGAGAAAGACCTTATTGGGACATG
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TGCCCAGCTGGCCTTACCAGCTAATGTTGGATTGTTGGCAAAAGGAGCGTGTGAAAGG
CCAAAATTTGAACAGATAGTTGGAATTCTAGACAAAATGATTCGAAACCCAAATAGTCTG
AAAACCTCCCTGGGAACCTGTAGTAGGCCAATAAGCCCTCTTCTGGATCAAACACTCCT
GATTTCACTACCTTTTGTTCAGTTGGAGAATGGCTACAAGCTATTAAGATGGAAAGATAT
AAAGATAATTTACGGCAGCTGGCTACAATTCCTTGAATCAGTAGCCAGGATGACTATT
GAGGATGTGATGAGTTTAGGGATCACACTGGTTGGTCATCAAAAGAAAATCATGAGCAGC
ATTCAGACTATGAGAGCACAAATGCTACATTTACATGGAAGTGGCATTCAAGTGTGA
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004440
<b>Insert Size:</b>	6600 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this clone has been fully sequenced and found one SNP within the protein associated with this reference, NM_004440.3. This SNP doesn't change amino acid.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004440.2</a> , <a href="#">NP_004431.1</a>
<b>RefSeq Size:</b>	5229 bp
<b>RefSeq ORF:</b>	2997 bp
<b>Locus ID:</b>	2045
<b>UniProt ID:</b>	<a href="#">Q15375</a>
<b>Cytogenetics:</b>	6q16.1
<b>Domains:</b>	pkinase, EPH_lbd, TyrKc, SAM, S_TKc, FN3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	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. Increased expression of this gene is associated with multiple forms of carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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.