**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC237135

## Eph receptor A7 (EPHA7) (NM_001288630) Human Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Eph receptor A7 (EPHA7) (NM_001288630) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | EPHA7 |
| **Synonyms:** | EHK-3; EHK3; EK11; HEK11 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **ORF Nucleotide Sequence:** | >RC237135 representing NM_001288630<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGTTTTTCAAACTCGGTACCCTTCATGGATTATTTTATGCTACATCTGGCTGCTCCGCTTTGCACACA<br>CAGGGGAGGCGCAGGCTGCGAAGGAAGTACTACTGCTGGATTCTAAAGCACAACAAACAGAGTTGGAGTG<br>GATTTCCTCTCCACCCAATGGGTGGGAAGAAATTAGTGGTTTGGATGAGAACTATACCCCGATACGAACA<br>TACCAGGTGTGCCAAGTCATGGAGCCCAACCAAAACAACTGGCTGCGGACTAACTGGATTTCCAAAGGCA<br>ATGCACAAAGGATTTTTGTAGAATTGAAATTCACCCTGAGGGATTGTAACAGTCTTCCTGGAGTACTGGG<br>AACTTGCAAGGAAACATTTAATTTGTACTATTATGAAACAGACTATGACACTGGCAGGAATATAAGAGAA<br>AACCTCTATGTAAAAATAGACACCATTGCTGCAGATGAAAGTTTTACCCAAGGTGACCTTGGTGAAAGAA<br>AGATGAAGCTTAACACTGAGGTGAGAGAGATTGGACCTTTGTCCAAAAAGGGATTCTATCTTGCCTTTCA<br>GGATGTAGGGGCTTGCATAGCTTTGGTTTCTGTCAAAGTGTACTACAAGAAGTGCTGGTCCATTATTGAG<br>AACTTAGCTATCTTTCCAGATACAGTGACTGGTTCAGAATTTTCCTCTTTAGTCGAGGTTCGAGGGACAT<br>GTGTCAGCAGTGCAGAGGAAGAAGCGGAAAACGCCCCCAGGATGCACTGCAGTGCAGAAGGAGAATGGTT<br>AGTGCCCATTGGAAAATGTATCTGCAAAGCAGGCTACCAGCAAAAAGGAGACACTTGTGAACGTAAG<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |

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**Protein Sequence:**

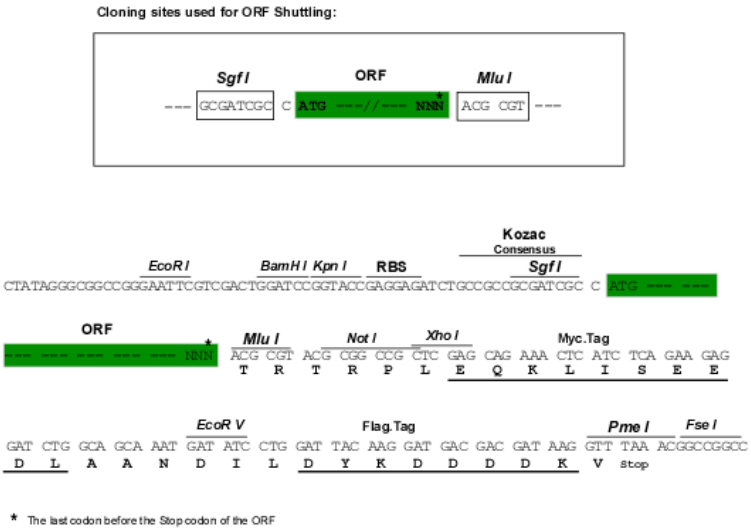
>RC237135 representing NM_001288630
Red=Cloning site Green=Tags(s)

MVFQTRYPSWIILCYIWLLRFAHTGEAQAAKEVLLLDSKAQQTELEWISSPPNGWEEISGLDENYTPIRT
YQVCQVMEPNQNNWLRTNWISKGNAQRIFVELKFTLRDCNSLPGVLGTCKETFNLYYYETDYDTGRNIRE
NLYVKIDTIAADESFTQGDLGERKMKLNTEVREIGPLSKKGFYLAFQDVGACIALVSVKVYYKKCWSIIE
NLAIFPDTVTGSEFSSLVEVRGTCVSSAEEEAENAPRMHCSAEGEWLVPIGKCICKAGYQQKGDTCERK

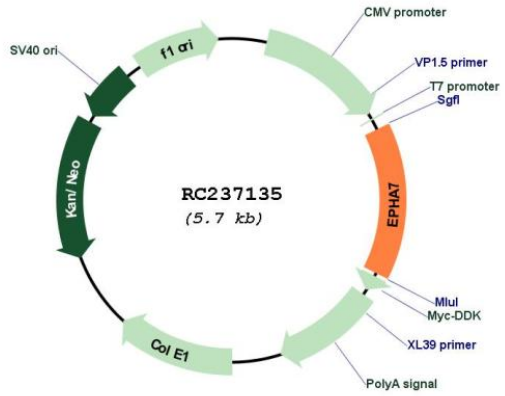
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001288630

**ORF Size:** 837 bp

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| **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 complete ORF 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001288630.2 |
| **RefSeq Size:** | 1935 bp |
| **RefSeq ORF:** | 840 bp |
| **Locus ID:** | 2045 |
| **UniProt ID:** | Q15375 |
| **Cytogenetics:** | 6q16.1 |
| **Protein Families:** | Druggable Genome, Protein Kinase, Transmembrane |
| **Protein Pathways:** | Axon guidance |
| **MW:** | 32.3 kDa |
| **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] |

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