

Product datasheet for **SC316541**

KIAA0748 (TESPA1) (NM_001098815) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0748 (TESPA1) (NM_001098815) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIAA0748
Synonyms:	HSPC257; ITPRID3; KIAA0748
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC316541 representing NM_001098815.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGCCTCTGTGCTGAGCCCCACATCCTGGGAGAAACGGCGGGCCTGGCTCCGTGAGAGCCGTAAC
TGGCAGACCCAGGTCTAGAAAGAGGAGGCTGCCGCCGCTGCAGGATGTCCAGATCCTGAGCCTTCC
AGCCTGGATGACGTTTTCCAAGAAGGGAATCCAATCAATAAAATTGAAGACTGGCTGCAGGATTGCGGA
TACTCTGAAGAAGGATTTCTGAGGAAGCAGGACAGTTTATCTACAATGGCTTCTGCAGCCATGGGACC
AGCTTTGAAGATGACTTGACCCTGGGAGCGGAGGCCACACTACTGGCCGCAATGGCAAACCTCTTCTCC
AGGAGTTTCTCGAGACAGCCAGGCCTTGCCAGCTACTTGATCTTGGCTGTAGTTTGGCTTCCAGCAGC
ATGACTGGGGGGACCAACAAGACTAGTTCAAGCATCTCAGAAATCTGGACAAAGTGAAGAAGATGCA
GAAGATGTCTCTCAGTCTGGGCTTTGGCCAAGAGGATCACAAGACACTTCTCGGATACCCGCCCGA
TTTTTACCACCCCTCTCAGGCCAAGGGCATTGATTTCCAGCTCTTCTGAAGTCCAGGTGCGGAGG
ATTGAAATGGAAGACCCCTGCCTCATGCTGGCCAGCAGGTTTAAGCAGGTGCAAACACTGGCTGTCACT
GCTGATGCCTTCTCTGTCTCTACTCTATGTGTCTAAGACACCTGTCCAAAAGTTCACACCATCCAC
ATGTTCTGGAATTGCAACCATCCAATGATGTGCCATCCATCAGGATTCTGTCCCAGAGCCTGAACCC
CAGTCACCCAGAGACCGCTTCGGAAAGCCATCTCCAAGATGTGTCTGTACACATGCCCCGAGACCGG
CCACCACCACCCACAACACCCCAAGGAACAGTTTGGACCAAGTTGTGTGGAAGTATGGACAAA
GTGAAAGAAGAGAAGCAGTTCTCCAGCAAGACTCTGATTTGGGCAATTCTCACAGGAAGATCCTGTG
CCCCCTGCTGAGGGTAAGAAGTTGCCCACTTCTCCCTATCCATGTGTCTTCTGCTGTGAAGAGGAAACA
CAGCAGAGGATGTCCACAGTGCTAGCACCATCCCAAACCTCTGGATTGCAACCCCAAGGTACCCTGTTGC
ACACATTCTCTGCCCATAGAAGATCCACAGTGGAGCACAGACCCAGCTCAGATAAGGAGAGAGCTGTGT
AGTCTACCAGCCACCAATACGGAACCCATCCAGCCAAGGATGAGACTTTCTGGAAAAGAAAGAGCAGA
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CAGCAGAAATGGAAGCAGAGTGTAGACAGACCAGAACTGCGTCGGTCTTTAAGCCAGCAGCCACAGGAC
ACTTTTGACTTGGAGGAGGTGCAAAGCAACAGTGAGGAGGAGCAGAGTCAGAGTCGCTGGCCAGCAGA
CCCAGGCACCCCAACCACCAGACTTTTGTGGCAAAGACTCGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001098815

Insert Size: 1566 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).

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:	<u>NM_001098815.2</u>
RefSeq Size:	3765 bp
RefSeq ORF:	1566 bp
Locus ID:	9840
UniProt ID:	<u>A2RU30</u>
Cytogenetics:	12q13.2
MW:	59.2 kDa
Gene Summary:	Required for the development and maturation of T-cells, its function being essential for the late stages of thymocyte development (By similarity). Plays a role in T-cell antigen receptor (TCR)-mediated activation of the ERK and NFAT signaling pathways, possibly by serving as a scaffolding protein that promotes the assembly of the LAT signalosome in thymocytes. May play a role in the regulation of inositol 1,4,5-trisphosphate receptor-mediated Ca(2+) release and mitochondrial Ca(2+) uptake via the mitochondria-associated endoplasmic reticulum membrane (MAM) compartment.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2), as well as variants 1 and 6, encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.