

Product datasheet for **RG233938**

KIAA0748 (TESPA1) (NM_001261844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0748 (TESPA1) (NM_001261844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIAA0748
Synonyms:	HSPC257; ITPRID3; KIAA0748
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233938 representing NM_001261844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGGGGGACCAACAAGACTAGTTCAAGCATCTCAGAAATCTGGACAAAGTGCAAGAAGATGCAG
 AAGATGTCCTCTTCAGTCTGGGCTTTGGCCAAGAGGATCACAAAGACACTTCTCGGATACCCGCCGATT
 TTTCACCAACCCCTCTCAGGCCAAGGGCATTGATTTCCAGCTCTTCTGAAGTCCAGGTGCGGAGGATT
 GAAATGGAAGACCCCTGCCTCATGCTGGCCAGCAGGTTTAAGCAGGTGCAAACTGGCTGTCACTGCTG
 ATGCCTTCTTCTGTCTCTACTCCTATGTGTCTAAGACACCTGTCCAAAGTTCACACCATCCCATGTT
 CTGGAATTGCAACCATCCAATGATGTGCCATCCATCAGGATTCTGTCCCAGAGCCTGAACCCAGTCA
 CCCAGAGACCGCCTTCGAAAAGCCATCTCCAAGATGTGTCTGTACACATGCCCCGAGACCGGCCACCAC
 CACCCCAACACCCCAAAAGGAACAGTTTGGACCAAGTTGTGTTGGAAGTGATGGACAAAGTGAAAGA
 AGAGAAGCAGTTCTCCAGCAAGACTCTGATTTGGGGCAATTCTCACAGGAAGATCCTGTGCCCCCTGCT
 GAGGGTAAGAAGTTGCCCACTTCTCCCTATCCATGTGTCTTCTGCTGTGAAGAGGAAACACAGCAGAGGA
 TGTCCACAGTGCTAGCACCATCCAACTCTGGATTGCAACCCCAAGGTACCCTGTTGCACACATTCTCT
 GCCCATAGAAGATCCACAGTGGAGCACAGACCCAGCTCAGATAAGGAGAGAGCTGTGTAGTCTACCAGCC
 ACCAATACGGAACCCATCCAGCCAAGGATGAGACTTTCTGGAAGAAAGAGCAGAGCAAGAAAGAGCC
 TCTTCCAGAAGAATCTCATGGGCAGGAAGTTAAGTCCTTGGACCTGTCCATCACCCAGCAGAAATGGAA
 GCAGAGTGTAGACAGACCAGAACTGCGTCGGTCTTTAAGCCAGCAGCCACAGGACACTTTTGACTTGGAG
 GAGGTGCAAGCAACAGTGAGGAGGAGCAGAGTCGAGTCGCTGGCCAGCAGACCCAGGCACCCCAACC
 ACCACCAGACTTTTGCTGGCAAAGACTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG233938 representing NM_001261844
 Red=Cloning site Green=Tags(s)

MTGGTNKTSSSISEILDKVQEDAEDVLFSLGFGQEDHKDTSRIPARFFTTSPQAKGIDFQLFLKSQVRI
 EMEDPCLMLASRFKQVQTLAVTADAFFCLYSYVSKTPVQKFTPSHMFWNCNHPTDVPISIRILSREPEQS
 PRDRLKAISKMCLYTCDRPPPHNTPKRNSLDQVLEVMDBKVEEKQFLQQDSDLGQFSQEDPVPPA
 EGKKLPTSPYPCVFCCEEETQQRMSVLAQSLDQSNPKVPCCTHSLPIEDPQWSTDPAQIRRELCSLPA
 TNTETHPAKDETFWKRKSRARKSLFQKNLMGRKVKSLDLSTQKQKQSVDRPELRRSLSQPQDFTDLE
 EVQSNSEEEQSQRWPSRPRHPHHHTFAGKDS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001261844

ORF Size: 1149 bp

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.
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_001261844.1, NP_001248773.1

RefSeq Size: 3614 bp

RefSeq ORF: 1152 bp

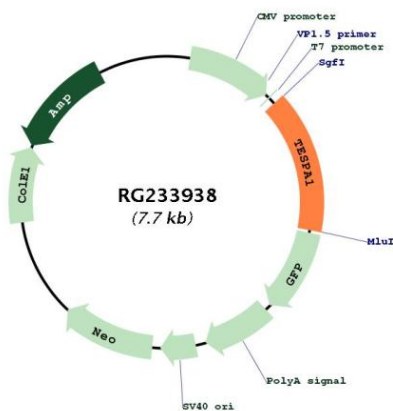
Locus ID: 9840

UniProt ID: A2RU30

Cytogenetics: 12q13.2

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]

Product images:



Circular map for RG233938