

Product datasheet for RC227425

TRAF4AF1 (KNSTRN) (NM_001142762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAF4AF1 (KNSTRN) (NM_001142762) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRAF4AF1
Synonyms:	C15orf23; HSD11; SKAP; TRAF4AF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227425 representing NM_001142762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCGGCTCCCGAAGCCCCGCCCTGGACAGAGTTTTCCGTACAACATGGCTGTCTACAGAGTGCATT
CCCACCCACTCCGCCTAGCTACCGAAGTTTCTATTTGAAACCCAGGCGGCCGACTTAGCCGGTGGCAC
GACAGTTGCTGCAGGGAATCTTTAAACGAGAGCGAGAAGGACTGCGGGCAGGACCGGGGCTCCTGGG
GTTGAGCCGTGCCGCTCGTTACGATGACCAAGTGTGGTTAAGACAGTGTATAGCCTGCAGCCCCCTCTG
CGCTGAGCGGCGCCAGCCGGCAGACACAACTCGGGCCACTCTAAGAGTCTTTACCTGTTAGGTC
CAAAGAAGTCGATGTTTCCAAACAGTTCAATTCAGGAGTCCAGAGAATGATGTTACAAAAATCACCAA
CTGAGACGAGAGAATGGCAAAATGAAAGCTACTGACACTGCCACCAGAAGGAATGTCAGAAAAGGCTACA
AACCCTGAGTAAGCAAAAATCAGAGGAAGAGCTCAAGGACAAGAACCAGCTGTTAGAAGCCGTCACAA
GCAGTTGCACCAGAAGTTGACTGAAACTCAGGGAGAGCTGAAGGACCTGACCCAGAAGGTAGAGCTGCTG
GAGAAGTTTCGGGACAACTGTTTGGCAATTTTGGAGAGCAAGGGCCTTGATCCAGTTGCTGTTAGAACT
TTGCAAGAGGAGCTGAAGCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227425 representing NM_001142762
Red=Cloning site Green=Tags(s)

MAAPEAPPLDRVFRTTWLSTECDSHPLPPSYRKFLFETQAADLAGGTTVAAGNLLNESEKDCGQDRRAPG
 VQPCRLVTMTSVVKTVYSLQPPSALSGGQPADTQTRATSKSLLPVRSKEVDVSKQLHSGGPENDVTKITK
 LRRENGQMKATDTATRRNVRKGYKPLSKQKSEELKDKNQLEAVNKQLHQKLTETQGELKDLTQKVVELL
 EKFRDNCLAILESKGLDPVAVRNFARGAEAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1466_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001142762

ORF Size: 723 bp

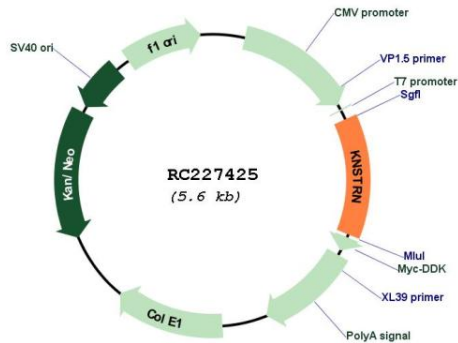
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

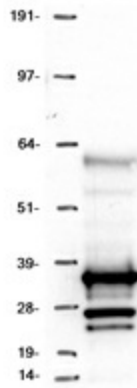
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_001142762.1, NP_001136234.1</u>
RefSeq ORF:	726 bp
Locus ID:	90417
UniProt ID:	<u>Q9Y448</u>
Cytogenetics:	15q15.1
MW:	26.4 kDa
Gene Summary:	Essential component of the mitotic spindle required for faithful chromosome segregation and progression into anaphase (PubMed:19667759). Promotes the metaphase-to-anaphase transition and is required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture (PubMed:19667759, PubMed:22110139). The astrin (SPAG5)-kinastrin (SKAP) complex promotes stable microtubule-kinetochore attachments (PubMed:21402792). Required for kinetochore oscillations and dynamics of microtubule plus-ends during live cell mitosis, possibly by forming a link between spindle microtubule plus-ends and mitotic chromosomes to achieve faithful cell division (PubMed:23035123). May be involved in UV-induced apoptosis via its interaction with PRPF19; however, these results need additional evidences (PubMed:24718257).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227425



Western blot validation of overexpression lysate (Cat# [LY428261]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).