

Product datasheet for SC325712

TRAF4AF1 (KNSTRN) (NM_001142761) Human Untagged Clone

Product data:

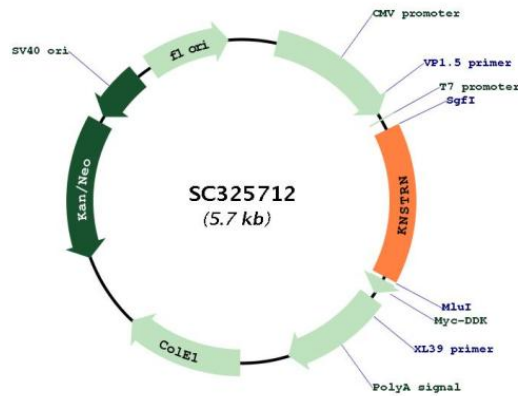
Product Type:	Expression Plasmids
Product Name:	TRAF4AF1 (KNSTRN) (NM_001142761) Human Untagged Clone
Tag:	Tag Free
Symbol:	KNSTRN
Synonyms:	C15orf23; HSD11; SKAP; TRAF4AF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325712 representing NM_001142761. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCTCCCGAAGCCCCGCCCTGGACAGAGTTTTCCGTACAACATGGCTGTCTACAGAGTGCAT
TCCCACCACTTCCGCCTAGCTACCGGAAGTTTCTATTTGAAACCCAGGCGGCCGACTTAGCCGGTGGC
ACGACAGTTGCTGCAGGGAATCTTTAAACGAGAGCGAGAAGGACTGCGGGCAGGACCGCGGGCTCCT
GGGTTTCAGCCGTGCCGCTCGTTACGATGACCAGTGTGGTTAAGACAGTGTATAGCCTGCAGCCCCC
TCTGCGCTGAGCGCGGCCAGCCGCGAGACACAAAACCTCGGGCCACTTCTAAGAGTCTCTTACCTGTT
AGGTCAAAGAAGTCGATGTTTCCAACAGCTTCAATTCAGGAGTCCAGAGAATGATGTTACAAAATC
ACCAAACCTGAGACGAGAGAATGGCAAAATGAAAGCTACTGACACTGCCACCAGAAGGAATGTCAGAAAA
GGCTACAAACCACTGAGTAAGCAAAAATCAGAGGAAGAGCTCAAGGACAAGAACCAGCTGTTAGAAGCC
GTCAACAAGCAGTTGCACCAGAAGTTGACTGAAACTCAGGGAGAGCTGAAGGACCTGACCCAGAAGGTA
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GGCAGTGAGACCTGGCATCACGACAAGAATCCACTACTGATCACATGGACTCTATGTTGCTGTTAGAA
ACTTTGCAAGAGGAGCTGAAGCTTTTTAACGAAACAGCCAAAAGCAGATGGAGGAGTTACAGATTGCT
TGGATGAATCATGGGATATTGCACCAAATGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001142761

Insert Size: 861 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: [NM_001142761.1](#)

RefSeq Size: 2039 bp

RefSeq ORF: 861 bp

Locus ID: 90417

UniProt ID: [Q9Y448](#)

Cytogenetics: 15q15.1

MW: 31.9 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]

Transcript Variant: This variant (2) differs in the 3' UTR and uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a frameshift. The encoded isoform (b) has a shorter and distinct C-terminus, compared to isoform a.