

Product datasheet for RN204680

Knstrn (NM_001004264) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Knstrn (NM_001004264) Rat Untagged Clone
Tag: Tag Free
Symbol: Knstrn
Synonyms: C15orf23; SKAP; Traf4af1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN204680 representing NM_001004264
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACTCACAAAGGCCGAGGCACAGGAGACAGACTTCCGTACAACAGGGCCGCCACAGACTTGAAC
 AGTGCCCTTTCCGCCAGCTCCCGAAGTTTCCTTTTAAAGCGTGGCGGCAGACTCTACTGAGGGCTG
 GGCAGTTGCTGCGGAGCATCATTTGAAAAGGAGCGGAGAGACGGCGGATGGGAGCAGCCGGCATCGGG
 GTCGAGCCAAGCCGCCGACTACGATGGCCAGTTCTAAGACGGTGTGCGACGCGCAGCCCATTCGATGC
 CGAGCTGCGGCTTGCCGAGATACACAACTCGAGCTACTTCTAAGCTACCTGTAAATCCAAAGACGC
 TGAGATGCTTAGACATCTTCATACGGGAGGCTTAGAGCCTGACGTTACAAAAGTACCAAACCAAGACGA
 GAGAACGGGCAGGGGAAAGCTGCGGAGACTGCCAGCCGGAGGAACATCAGAAGCAGCTACAAACCACTGA
 GTAAGCAAAGCCAGAGGAGGATCTGAAGGATAAAAACGAGCTGCTGGAGGCTGTCAACAAGCAGCTACA
 CCAGAAGCTGACAGAGACTCAGGGAGAGCTGAAGGACCTGACACAGAAGGTGGAGCTCCTGGAGAAGTTT
 CAGGATAACTGCTTAGCAATTTGGAGAGCAAAGGTCTCAACTCAGGCCAAGAGACCCAGGAATCAAAGC
 AGGAACCCAGCACAGATCCCACGACTCCATGCTGCTGCTAGAACTTTGAAAGATGAAGTGAAGCTTTT
 CAATGAACTGCCAAGAAGCAGATGGAGGAGCTACAGGCCTTGAAGGTGAAGTTGAAGTGAAGAAAAA
 GAAAGGATCCAGTTCTGGAACAGCAAACCTTAGGTAAGGACGAAGCCAGTGACTTCACAATAATCCTGG
 AGGAAATGGAGCAGCTCTAGAAATG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001004264
Insert Size: 939 bp



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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).
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_001004264.1</u> , <u>NP_001004264.1</u>
RefSeq Size:	1490 bp
RefSeq ORF:	939 bp
Locus ID:	311325
UniProt ID:	<u>Q6AXN6</u>
Cytogenetics:	3q35
Gene Summary:	Essential component of the mitotic spindle required for faithful chromosome segregation and progression into anaphase. Promotes the metaphase-to-anaphase transition and is required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture. The astrin (SPAG5)-kinastrin (SKAP) complex promotes stable microtubule-kinetochore attachments. 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. [UniProtKB/Swiss-Prot Function]