

Product datasheet for **RR204680**

Knstrn (NM_001004264) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Knstrn (NM_001004264) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Knstrn
Synonyms:	C15orf23; SKAP; Traf4af1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204680 representing NM_001004264 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGACTCACAAAGGCCGAGGCACAGGAGACAGACTTCCGTACAACAGGGCCGCCACAGACTTGAAC
AGTGCCCTTTCCGCCAGCTCCCGAAGTTTCCTTTTAAAAGCGTGGCGGCAGACTCTACTGAGGGCTG
GGCAGTTGCTGCGGAGCATCATTGAAAAGGAGCGGAGAGGACGGCGGATGGGAGCAGCCGGCATCGGG
GTCGAGCCAAGCCGCCGACTACGATGGCCAGTTCTAAGACGGTGTGCGACGCGCAGCCCATTCGATGC
CGAGCTGCGGCTTGTCCGAGATACACAACTCGAGCTACTTCTAAGCTACCTGTTAAATCCAAAGACGC
TGAGATGCTTAGACATCTTCATACGGGAGGCTTAGAGCCTGACGTTACAAAAGTACCAAACCAAGACGA
GAGAACGGGCAGGGGAAAGCTGCGGAGACTGCCAGCCGGAGGAACATCAGAAGCAGCTACAAACCACTGA
GTAAGCAAAGCCAGAGGAGGATCTGAAGGATAAAAACGAGCTGCTGGAGGCTGTCAACAAGCAGCTACA
CCAGAAGCTGACAGAGACTCAGGGAGAGCTGAAGGACCTGACACAGAAGGTGGAGCTCCTGGAGAAGTTT
CAGGATAACTGCTTAGCAATTTTGGAGAGCAAAGGTCTCAACTCAGGCCAAGAGACCCAGGAATCAAAGC
AGGAACCCAGCACAGATCCCACGACTCCATGCTGCTGCTAGAACTTTGAAAGATGAAGTGAAGCTTTT
CAATGAAACTGCCAAGAAGCAGATGGAGGAGCTACAGGCCTTGAAGGTGAAGTTGAAGTGAAGAAAAA
GAAAGGATCCAGTTCTTGAACAGCAAACCTTAGGTAAGGACGAAGCCAGTGACTTCACAATAATCCTGG
AGGAAATGGAGCAGCTCTAGAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204680 representing NM_001004264
 Red=Cloning site Green=Tags(s)

MATHKAEAQETDFRTTGPPTDLEQCFFPPSSRKFPPFESVAADSTEGWAVAAEHHLKRSGEDGGWEQPASG
 VEPSRPTTMASSKTVCDAPHSMPCGLSADTQTRATSKLPVSKDAEMLRHLHTGGLEPDVTKVTKPRR
 ENGQGAAETASRRNIRSSYKPLSKQKPEEDLKDKNELLEAVNKQLHQKL TETQGELKDL TQKVELLEKF
 QDNCLAILLESKGLNSGQETQESKQEPSTDPDMSMLLLETLKDELKLFNETAKKQMEELQALKVKLKLKEK
 ERIQFLEQQLGKDEASDFTIILEEMEQLLEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

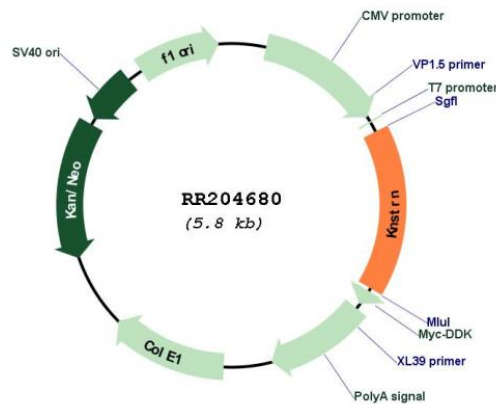
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001004264

ORF Size: 936 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:	<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:	NM_001004264.1 , NP_001004264.1
RefSeq Size:	1490 bp
RefSeq ORF:	939 bp
Locus ID:	311325
UniProt ID:	Q6AXN6
Cytogenetics:	3q35
MW:	34.9 kDa
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]