

Product datasheet for MR217676

Knstrn (NM_026412) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Knstrn (NM_026412) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Knstrn
Synonyms:	1700025D04Rik; C15orf23; D2Ert750e; SKAP; Traf4af1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217676 representing NM_026412 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCCGAGGCCGAGGCACAAGAGACAGCCTTCCGTACAACAGGGCCGCTACAGACTCGGAGC
CGCGCCCCTCCCTCCAGCTCCCGAAGTTTCTTTTAAAGCGCGCGGCAGACTCTAACGAGGACTG
GGCAGTTGCTGCGGAGCATTATTTGAAAGGGAGCGGAGAGAACGGCGGATGGGAGCAGCCGGCACC
GTCCAGCCAAGCCACCCGGCTACGATGGCCAGTGCTAAGACGGTGTGCGATGCGCAGCCTACTCGATGC
CGAGCTGCGGCTTGCCCGCAGATACACAACTCGAGCTACTTCTAAACTACCTGTAAATCCAAAGAAGC
GGATTTGCTTAGACATCTTCATCCAGGAGGCCAGAGCCTGATGTTACAAAAGTACCAAATCGAGACGA
GAGAATGGGCAGGTGAAAGCGGCAGAGACTGCCAGCAGGAGGAACCTCAGAAACAGCTACAAACCGTTTA
ATAAGCAAAAACCGGAGGAGGAATAAGGATAAAAATGAGCTGCTGGAGGCTGTCAACAAGCAGTTACA
CCAGAAGCTGACAGAGACTCAGGGAGAGCTGAAGGACCTGACACAGAAAGTGGAGCTACTGGAGAAGTTT
CAGGATAACTGCTTAGCACTTTTGGAGAGCAAAGTCTCAACCCAGGCCAAGAGACCCTGGCATCAAAGC
AGGAACCCACCACAGATCACACGGACTCCATGCTGCTGCTCGAACTTTGAAAGCAAGTGAAGTTTTT
CAATGAAACCCCAAGAAGCAGATGGAGGAGCTACAGGCCTTGAAGGTGAAGTTGAAGCTGAAAGAAGAG
GAGAGTGTCCAGTTCCTGGAACAGCAGACCTTATGTAAGGACGAAGCCAGTGACTTACAATAATCCTAG
AGGAAATGGAGCAGCTCTTAGAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR217676 representing NM_026412
Red=Cloning site Green=Tags(s)

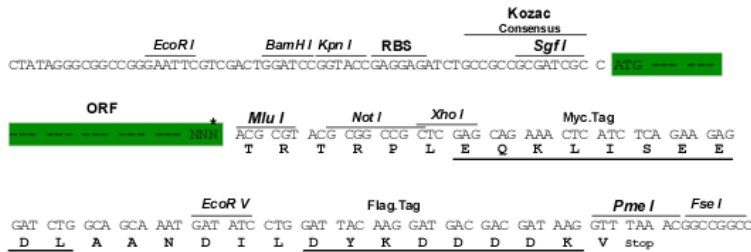
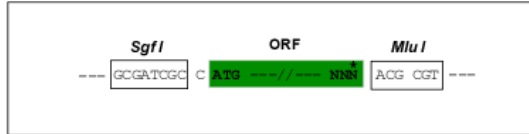
MAAPEAEAQETAFRTTGPPTDSEPRPFPSSSRKFPFESAAADSNEDWAVAAEHYKLGSGENGGWEQPAPG
 VQPSHPATMASAKTVCDAPHSMPSCGLPADTQTRATSKLPVKSKEADLLRHLHPGGPEPDVTKVTKSRR
 ENGQVKAETASRRNLRNSYKPFNKQKPEEELKDKNELLEAVNKQLHQKL TETQGELKDL TQKVLELKEF
 QDNCLALLESKGLNPGQETLASKQEPTTDHTDSMLLLETLKDELKVFNETAKKQMEELQALKVKLKLKEE
 ESVQFLEQQTLCKDEASDFTIILEEMEQLLEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

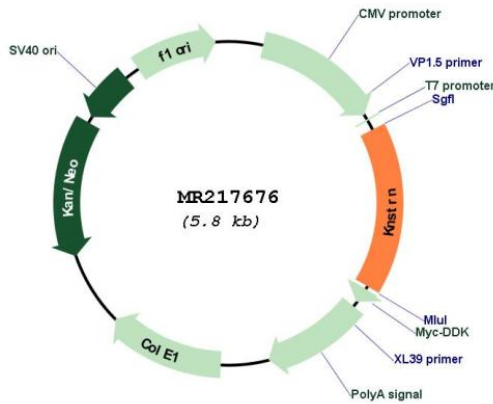
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_026412

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_026412.3 , NP_080688.2
RefSeq Size:	3118 bp
RefSeq ORF:	939 bp
Locus ID:	51944
UniProt ID:	Q9D9Z1
Cytogenetics:	2 E5
MW:	35.2 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]