

## Product datasheet for RR204680L3

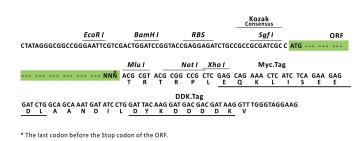
## Knstrn (NM\_001004264) Rat Tagged Lenti ORF Clone

## **Product data:**

## OriGene Technologies, Inc.

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| Product Type:                | Expression Plasmids  |
|------------------------------|--|
| Product Name:                | Knstrn (NM_001004264) Rat Tagged Lenti ORF Clone               |
| Tag:                         | Myc-DDK  |
| Symbol:                      | Knstrn   |
| Synonyms:                    | C15orf23; SKAP; Traf4af1                                       |
| Mammalian Cell<br>Selection: | Puromycin  |
| Vector:                      | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                           |
| E. coli Selection:           | Chloramphenicol (34 ug/mL)                                     |
| ORF Nucleotide<br>Sequence:  | The ORF insert of this clone is exactly the same as(RR204680). |
| <b>Restriction Sites:</b>    | Sgfl-Mlul  |
| Cloning Scheme:              |  |
|                              | Cloning sites used for ORF Shuttling:                          |
|                              | Sgf I ORF Mlu I<br>GCG ATC GC C <mark>ATG// NNŇ</mark> ACG CGT |



ACCN: ORF Size: NM\_001004264 936 bp



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| Sevential Content and Content |  |
|---|--|
| 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. <u>More info</u>  |
| 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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| RefSeq:   | <u>NM 001004264.1, 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] |

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