

## Product datasheet for RC216742

### Symplekin (SYMPK) (NM\_004819) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Symplekin (SYMPK) (NM_004819) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Symplekin
Synonyms:	Pta1; SPK; SYM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216742 representing NM_004819 Red=Cloning site Blue=ORF Green=Tags(s)

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ATGGCGAGCGCAGTGGAGACAGCGTCACCCGTCGGAGCGTGGCATCACAGTTTTCTCAAGAGGAGG  
GGCCGGGCATCGATGGCATGACCACCTCAGAGAGGGTGGTGGATCTTCTGAACCAGGCGCGCTGATCAC  
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CTGCAGTGGATGGTAAAGTCACGGGTCATTAGCGAGCTACAGGAGGCTGCTGGGACATGGTATCTGCCA  
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CGGCGCCTGTGAGCCAGGGCCAAGCCATCTCGGTGGTGGGTTCCCTGAGCTCCATGTCCCCCTGGAGG  
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Protein Sequence: >RC216742 representing NM\_004819  
 Red=Cloning site Green=Tags(s)

MASGSGDSVTRRSVASQFFTQEEGPGIDGMTTSERVVDLLNQAALITNDSKITVTKVQVQELIINKDPTLL  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8018\\_c01.zip](https://cdn.origene.com/chromatograms/mk8018_c01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

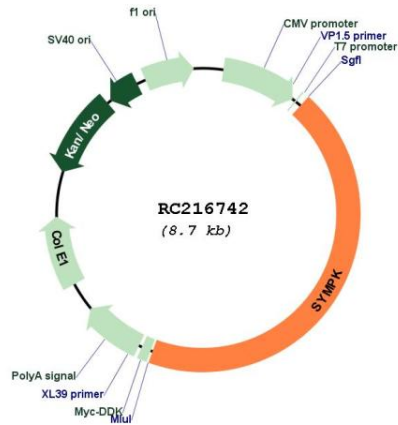


ACCN: NM\_004819

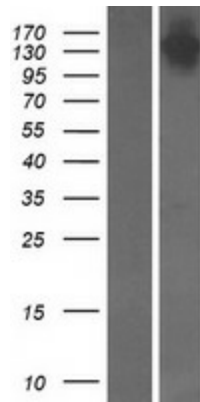
ORF Size: 3822 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004819.3</a>
<b>RefSeq Size:</b>	4188 bp
<b>RefSeq ORF:</b>	3825 bp
<b>Locus ID:</b>	8189
<b>UniProt ID:</b>	<a href="#">Q92797</a>
<b>Cytogenetics:</b>	19q13.32
<b>Protein Pathways:</b>	Tight junction
<b>MW:</b>	141 kDa
<b>Gene Summary:</b>	This gene encodes a nuclear protein that functions in the regulation of polyadenylation and promotes gene expression. The protein forms a high-molecular weight complex with components of the polyadenylation machinery. It is thought to serve as a scaffold for recruiting regulatory factors to the polyadenylation complex. It also participates in 3'-end maturation of histone mRNAs, which do not undergo polyadenylation. The protein also localizes to the cytoplasmic plaques of tight junctions in some cell types. [provided by RefSeq, Jul 2008]

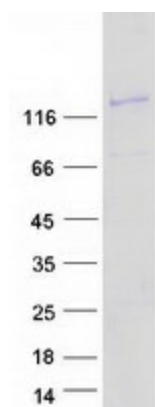
Product images:



Circular map for RC216742



Western blot validation of overexpression lysate (Cat# [LY417725]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216742 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SYMPK protein (Cat# [TP316742]). The protein was produced from HEK293T cells transfected with SYMPK cDNA clone (Cat# RC216742) using MegaTran 2.0 (Cat# [TT210002]).