

Product datasheet for **RC223202**

PSPC1 (NM_001042414) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PSPC1 (NM_001042414) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PSPC1 |
| Synonyms: | PSP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC223202 representing NM_001042414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTTAAGAGGAACTGAAGCAAGTGCCTTGGGAAACCCGGCCCGCTTCGCGCCCTGGAGT
 CCGCGGTGGGCGAGAGCGAGCCGGCGCGCCGCGGACCCATGGCGCTCGCTTTCGCGGGAGCCGGCACC
 GCCCGCGCCCGCCCTCCAGAGGACCACCCGGACGAGGAGATGGGGTTCCTATCGACATCAAGAGTTTC
 CTCAAGCCGGGCGAGAAGACGTACACGCAGCGCTGCCGCCTTTCGTTGGGAAATCTGCCACCGACATCA
 CGGAGGAGGACTTCAAGAGGCTCTTGAACGCTATGGCGAGCCAGCAAGTCTTCATCAACCGGGACCG
 TGGCTTCGGCTTCATCCGCTTGAATCCAGAACCCTGGCTGAAATTGCAAAAGCAGAGCTGGACGGCACC
 ATTCTCAAGAGCAGACCTCTACGGATTCGCTTCGCTACACATGGAGCAGCCTTGACTGTCAAGAACCTTT
 CTCAGTTGTTTCCAATGAGCTGTAGCAAGCATTCTCAGTTTGGTCCAGTAGAGAAAGCTGTTGT
 GGTGTGGATGATCGCGTAGAGCTACAGGAAAAGTTTTGTAGAGTTTGCAGAAAACCTCCTGCACGA
 AAGGCTCTGAAAAGATGTGGTATGGGGCATTCTTGCTAACAACGACCCCTCGTCCAGTCAATTGTGGAAC
 CCATGGAGCAGTTTGTATGAAGATGGCTTGCCAGAGAAGCTGATGCAGAAAACCAACATATCATAA
 GGAAAGAGAACAACCACCACGTTTTGCTCAACCTGGGACATTTGAATTTGAGTATGCATCTCGATGGAAG
 GCTCTTGTGAAATGGAAAAGCAGCAGCGTGAGCAGGTTGATAGAAACATCAGAGAAGCCAAAGAGAAAAC
 TGGAGGCAGAAAATGGAAGCAGCTAGGCATGAACACCAATTAATGCTAATGAGGCAAGATCTAATGAGGCG
 TCAAGAAGAACTCAGACGCTTGAAGAAGCTCAGAAAACCAAGAGTTGCAAAAACGGAAGCAATACAATA
 AGACATGAAGAGGAGCATCGCGCGCTGAGGAAGAAATGATCCGACACAGAGAACAGGAGGAACTGAGGC
 GACAGCAAGAGGGCTTTAAGCCAACTACATGGAAAATAGAGAACAGGAAATGAGAAATGGGTGATGAGG
 TCCCCGTGGAGCAATAAACATGGGAGATGCGTTTTAGCCAGCCCTGCTGGTAACCAAGGTCCTCCTCCA
 ATGATGGGTATGAATATGAACAACAGAGCAACTATACCTGGCCACCAATGGGTCCTGGTCTGCCATGG
 GACCAGAAGGAGCCGCAATATGGGAACTCCAATGATGCCAGATAATGGAGCAGTGCACAATGACAGATT
 TCCTCAAGGACCACCATCTCAGATGGGTTACCTATGGGGAGTAGAACAGGTTCTGAAACCCCTCAAGCA
 CCAATGAGTGGTGTAGGTCTGTGAGTGGTGGTCTGGTGGCTTTGGTAGAGGAAGTCAAGGGGCAACT
 TTGAAGGCCCTAATAAGCGTCGTAGATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223202 representing NM_001042414
 Red=Cloning site Green=Tags(s)

MMLRGNLKQVRIEKNPARLRALESVAVGESEPAAMALALAGEPAPPAPAPPEDHPDEEMGFTIDIKSF
 LKPGEKTYTQRCRLFVGNLPTDITEEDFKRLFERYGEPSEVFINRDRGFIFIRLESRTLAEIAKAEIDGT
 ILKSRPLRIRFATHGAALTVKNLSPVVSNELLEQAFSQFGPVEKAVVVVDDRGRATGKGFVEFAAKPPAR
 KALERCDDGAFLLTTTPRPVIVEPMEQFDEEDGLPEKLMQKTQQYHKEREQPPRFAPQGTFFEFYASRWK
 ALDEMEKQREQVDRNIREAKEKLEAEMEAARHEHQLMLMRQDLMRRQEELRRLEELRNQELQKRKQIQ
 RHEEEHRRREEEMIRHREQEELRRQEQEGFKPNYMNREQEMRMGDMGPRGAINMGDAFSPAPAGNQGPPP
 MMGMNMNRATIPGPPMGPGPAMGPEGAANMGTPMMPDNGAVHNDRFQGPSPQMGSPMGSRTGSETPQA
 PMSGVGPVSGGPGGFRGSQGGNFEGPNKRRRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8045_e03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001042414

ORF Size: 1569 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001042414.4](#)

RefSeq Size: 2077 bp

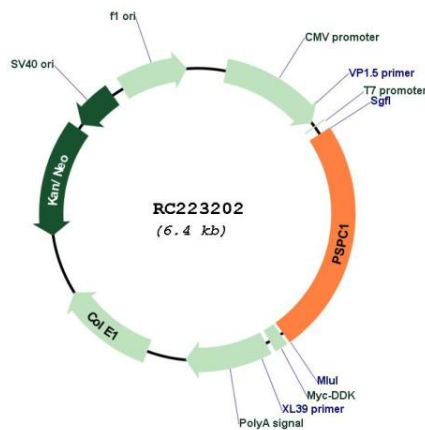
RefSeq ORF: 1572 bp

Locus ID: 55269

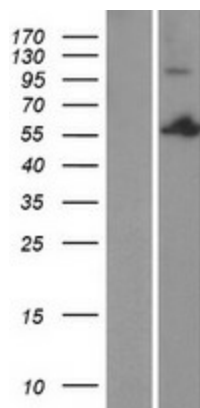
UniProt ID: [Q8WXF1](#)
Cytogenetics: 13q12.11
Protein Families: Transcription Factors
MW: 58.6 kDa

Gene Summary: This gene encodes a nucleolar protein that localizes to punctate subnuclear structures that occur close to splicing speckles, known as paraspeckles. These paraspeckles are composed of RNA-protein structures that include a non-coding RNA, NEAT1/Men epsilon/beta, and the Drosophila Behavior Human Splicing family of proteins, which include the product of this gene and the P54NRB/NONO and PSF/SFPQ proteins. Paraspeckles may function in the control of gene expression via an RNA nuclear retention mechanism. The protein encoded by this gene is found in paraspeckles in transcriptionally active cells, but it localizes to unique cap structures at the nucleolar periphery when RNA polymerase II transcription is inhibited, or during telophase. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene, which is also located on chromosome 13, has been identified. [provided by RefSeq, Aug 2011]

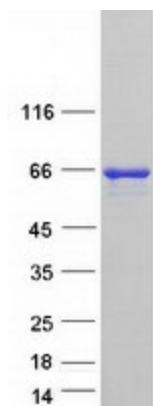
Product images:



Circular map for RC223202



Western blot validation of overexpression lysate (Cat# [LY420888]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223202 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSPC1 protein (Cat# [TP323202]). The protein was produced from HEK293T cells transfected with PSPC1 cDNA clone (Cat# RC223202) using MegaTran 2.0 (Cat# [TT210002]).