

## Product datasheet for **RR200842**

### Sh2b2 (NM\_053669) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b2 (NM_053669) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh2b2
Synonyms:	Aps
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR200842 representing NM\_053669  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATGGTGCCACCCCCGGCTCGGCAGCCGCCCCGCCAGTCCCGACTGGAGGCAATTCTGCGAGC  
 TGCACGCTCAGGTAGCTGCTGTGGACTTCGCTCACAAGTTCTGCCGCTTCCTTCGGGACAACCCGACCTA  
 CGACACGCCTGACGCTGGGACCTCGTTCTCCGCCACTTTGCAGCCAATTCTTGGCAGTCTTCAGCGAG  
 GAAGTGCGCCCGGTGCTGGGGACAGCAGCTGACACCATGGAACCCGAGCCTGCGGTGACCTCCGTGACCT  
 CGGCGCTCAAGACTGCAACCTATGGCCACTCTCGCAGCTCCGAAGATGTGTCTGCTCACGTGGCTACCAA  
 GGCCCGTGTCCGCAAAGGCTTCTACTGCGTAACATGAGCCTGTGTGTAGTGGACGGAGTGCAGGACCTA  
 TGGCACCCGGCGCATCCCCAGAGCCGAGGGTGGGGCCACCCGAAAACCACCGAGCCTGTGTCCGAGC  
 CTCGTGACAAATGGACGCGACGCTCGCGCTGGCAGCAACCTGGCAGCCAAAGTGGAGTGTAGTGGACAT  
 CCAGCGCAGGGGCGACTGCGCTTCATGGTGGCAGATGATGCAGCCTCCGGCCCTGGGGGCACGGCACAG  
 TGGCAGAAATGTCGCTGCTCCTCCGAAGGGCTGTGGCCGGAGAGCGCTTCGGCCTGGAGTCTTCGTGC  
 CACCCAAGGCTTCCAGACCCAAGGTCAGCATCCCCCTGTCGGCCATCATCGAGGTCGGAACCCACCATGCC  
 CCTGGAATGCCTGAGAAGGACAACACATTTGTGCTCAAGGTGGAGAACGGAGCGGAGTACATTCTGGAG  
 ACGATAGACTCACTACAGAAGCACTCGTGGGTGGCTGACATCCAGGGCTGTGTGGATCCTGGGGACAGTG  
 AGGAAGACACAGGGCTGTCTTGTGCACGGGGAGGCTGTCTGGCCAGCCCGGTGACCTCCTGCAGCTGTGA  
 GCTCCTGACAGAAGCAGACATGCCCGGCCCCAGAGACGATGACAGCAGTGGGTGCTGTGGTTACAGCT  
 CCACATGGCCGAGCTCGTGACACCGTGGGAGAGTCCCTGGCTCACGTTCCCTGGAGACTTCTCTGCAAA  
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 TCGTGAGGCTGAGCTGGAAGTCTCCGACTACCCCTGGTCCATGGGACACTGTCCCGGGTGAAGGCCGCC  
 CAGCTGGTGTGGCTGGTGGGCCCGGAGTCACGGCCTTTTGTGATCCGCCAAAGCGAGACTCGGCCTG  
 GGGAGTGTGTGCTGACCTTCAACTTCCAGGGCAAGGCCAAGCACCTTCGCCTTTCTCTGAATGGTACCGG  
 CCAGTGTGATGTCCAACACCTGTGGTCCAGTCCGTTTGTGATGCTTCGACACTTCCACACCCACCCC  
 ATCCCTGGAGTCAGGAGGATCCGCTGACATCACCTACGAAGCTACGTGCGTGCCCAAGGTCCACCTC  
 CTGATCCAGGACCAGGCCAACACTGCAGCCCCGGTCCCGCCTGCTGGACGGAGCCGGCTGGCCAGCA  
 CTACTTCTCCAGCTGGCCACGGCCACCTGCCACCCACTTACCCTCCAATGGCGCTGGAGCATCGTCCG  
 TCATCCGGTTCATCATCCTCTGCTACGTCCGTGCCCCACGCCAGCCGAGGGGCCACTCAGTGCAGCGCA  
 GTCGACGCAACAGCACAGAGCACCTGCTAGAGGCTGCATCCGGAGCCACTGAGGAGCCCGCAGATGCCAC  
 GCTGGGCCGCGCTCGCGCTGTGGAGAATCAGTACTCCTTTTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200842 representing NM\_053669  
 Red=Cloning site Green=Tags(s)

MNGATPGSAAAPAPVPDWRQFCELHAQVAAVDFAHKFCRFLRDNPTYDTPDAGTSFSRHFANFLAVFSE  
 EVRRVLGTAADTMEPEPAVTSVTSALKTATYGHRSSEDEVSAHVATKARVRKGFSLRNMSLCVVDGVRDL  
 WHRRASPEPEGGATPKTTEPVSEPRDKWTRRLRLARTLAAKVELVDIQREGALRFMVADDAASGPGGTAQ  
 WQKCRLLLRVAVAGERFRLEFFVPPKASRPKVSIPLSAIIIEVRTTMPLEMPKDNFTVLKVENGAEYILE  
 TIDSLQKHSWVADIQGCVDPGDSEEDTGLSCARGGCLASRVTSCECELLTEADMPPPETMTAVGAVVTA  
 PHGRARDTVGESLAHVPLETFLQTLSSGGVSESNNTGDEGAELDPDAEAELELSDYPWFHGTLSRVKAA  
 QLVLAGGPRSHGLFVIRQSETRPGECVLTFNFQKAKHLRLSLNGHGQCHVQHLWFQSVFMDLRHFHTHP  
 IPLESGGSADITLRSYVRAQPPDPGPAPNTAAPVPACWTEPAGQHYFSSLATATCPPTSPSNGAGASS  
 SSGSSSATSVPVPPRAEGLSARSRNSTEHLLEAASGATEEPADATLGRARAVENQYSFY

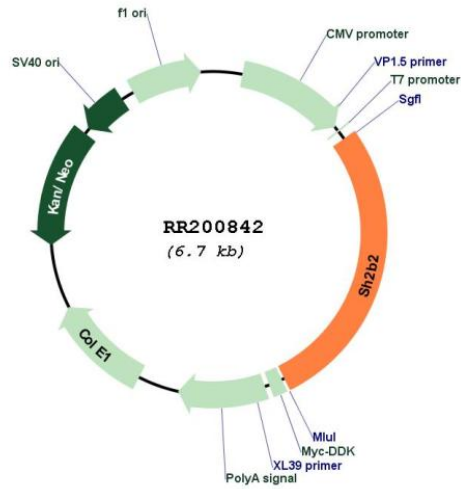
**TRTRP**LEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053669

ORF Size: 1863 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_053669.1</a> , <a href="#">NP_446121.1</a>
<b>RefSeq Size:</b>	2856 bp
<b>RefSeq ORF:</b>	1866 bp
<b>Locus ID:</b>	114203
<b>UniProt ID:</b>	<a href="#">Q9Z200</a>
<b>Cytogenetics:</b>	12q12
<b>MW:</b>	66.7 kDa
<b>Gene Summary:</b>	plays a role in Trk mediated signalling during neurogenesis [RGD, Feb 2006]