

## Product datasheet for **RG201836**

### **RPS4X (NM\_001007) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPS4X (NM_001007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RPS4X
Synonyms:	CCG2; DXS306; RPS4; S4; SCAR; SCR10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201836 representing NM_001007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAGCTCCAAGCATTGGATGCTGGATAAATTGA  
CCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCACAAGTTGAGAGAGTGTCTCCCCCTCATTTTT  
CCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGATTTGCATGCAGCGGTTCA  
AAAATCGATGGCAAGGTCCGAAGTATATAACCTACCCGCTGGATTCATGGATGTCATCAGCATTGACA  
AGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGTTTGTGTACATCGTATTACACCTGA  
GGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAGGAATCCCTCATCTGGT  
ACTCATGATGCCCGACCATCCGCTACCCCGATCCCTCATCAAGGTGAATGATACCATTGAGATTGATT  
TGGAGACTGGCAAGATTACTGATTTTCATCAAGTTCGACACTGGTAACCTGTGTATGGTACTGGAGGTGC  
TAACCTAGGAAGAATTGGTGTGATCACCAACAGAGAGAGGACCCTGGATCTTTTGACGTGGTTCACGTG  
AAAGATGCCAATGGCAACAGCTTTGCCACTCGACTTTCCAACATTTTGTATTGGCAAGGGCAACAAAC  
CATGGATTTCTCTCCCCGAGGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGC  
GCCAAACAGAGCAGTGGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201836 representing NM\_001007  
Red=Cloning site Green=Tags(s)

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKIKCMQRFI  
 KIDGKVRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRI TPEEAKYKLCVKRKIFVGTGKIPHLV  
 THDARTIRYPDPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRRERHPGSGFDVVHV  
 KDANGNSFATRLSNIFVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

TRTRPLE - GFP Tag - V

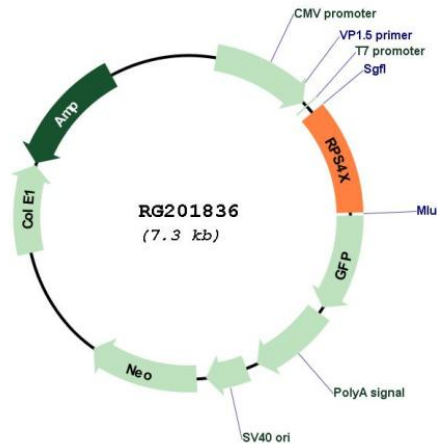
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001007

**ORF Size:** 789 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_001007.5</a>
<b>RefSeq Size:</b>	977 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	6191
<b>UniProt ID:</b>	<a href="#">P62701</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Domains:</b>	Ribosomal_S4e, S4, KOW
<b>Protein Pathways:</b>	Ribosome
<b>Gene Summary:</b>	Cytoplasmic ribosomes, organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes ribosomal protein S4, a component of the 40S subunit. Ribosomal protein S4 is the only ribosomal protein known to be encoded by more than one gene, namely this gene and ribosomal protein S4, Y-linked (RPS4Y). The 2 isoforms encoded by these genes are not identical, but are functionally equivalent. Ribosomal protein S4 belongs to the S4E family of ribosomal proteins. This gene is not subject to X-inactivation. It has been suggested that haploinsufficiency of the ribosomal protein S4 genes plays a role in Turner syndrome; however, this hypothesis is controversial. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008]