

Product datasheet for **MG204688**

Rbks (NM_153196) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rbks (NM_153196) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rbks
Synonyms: 5230400M11Rik; AI326806; RBSK; RK
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204688 representing NM_153196
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGTGTGGGAGCCCGGAGGCCCTGGCAGGAGGAGGAGGCAGCAGCGGTGGTAGTGGTGGTT
CCTGCATGACCGACCTGGTCAGTCTTACTTCTCGCTTGCCAAAACTGGAGAAACCATCCATGGACATGA
GTTTTTTATTGGCTTTGGAGGAAAAGTGCCAACCAAGTGTGTCCAAGCTGCGCGACTGGGAGCAAAGGCG
GCCATAGTCTGCAAGGTTGGCAACGATTCTTTGGCAATGATTACATAGAAACTAAAAACAAAATCATA
TTTCTACAGAGTTTACATATCAGACCAGAGATGCAGCTACAGGAACAGCCTCCATAATTGTCAATAATGA
AGGCCAGAATATCATCGTCATAGTGGCTGGAGCAAATCTGTTTTTGAATTCTGAAGACTGAAGAAGGCA
GCCAGTGTCAATTAGCCGAGCCAAAGTGATGATATGCCAGCTAGAAATAAGCCCGGCGACTTCTCTGGAAG
CTCTGACAATGGCCCGCAGGAGTGGAGTGAACCTTGTTCACCCAGCTCCAGCCATGGCTGACCTGGA
CCCCAGTTCTATACCCTCTCCAGTATTTTCTGCTGCAACGAGAGCGAGGCTGAGATTTTAAACAGGCCAC
GCAGTGTGACCCACACGGCTGGGAAGGCTGCAATGATTCTCCTAGAACGGGGCTGCCAGGTTGTGG
TCATCACCTTAGGGCTTCAGGATGCGTGATACTGTCACAGGCTGAGCCTGTTCCAAAGCACATCCCAC
TGAAGCTGTCAAGGCTGTAGACACCACGGGTGCTGGTACAGTTTTGTGGGAGCGCTGCCCTTCTACCTG
GCTTACTACCCAAATCTGTCCTTGAAGAAATGCTCAAGAGATCCAATTTTCATCGCTGCAGTCAGTGTAC
AGGCCACGGGAACACAGTCTCTTATCCATACAAAAAGACCTCCCTCTTGTCTATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204688 representing NM_153196
 Red=Cloning site Green=Tags(s)

MAACGEPGRPWQEEEEAAVVVVVGSMDLVSLTSRLPKTGETIHGHEFFIGFGGKGANQCVQAARLGAKA
 AIVCKVGNDSFGNDYIENLKQNHISTEFTYQTRDAATGTASIIVNNEGQNIIVIVAGANLFLNSEDLKKA
 ASVISRAKVMICQLEISPAASLEALTMARRSGVKTLFNPAPAMADLDPQFYTLSSIFCCNESEAEILTGH
 AVSDPTTAGKAAMILLERGCQVVVITLGASGCVILSQAEPVPKHIPTEAVKAVDTTGAGDSFVGALAFYL
 AYPNLSLEEMLKRSNFIAAVSVQATGTQSSYPYKDLPLALF

TRTRPLE - GFP Tag - V

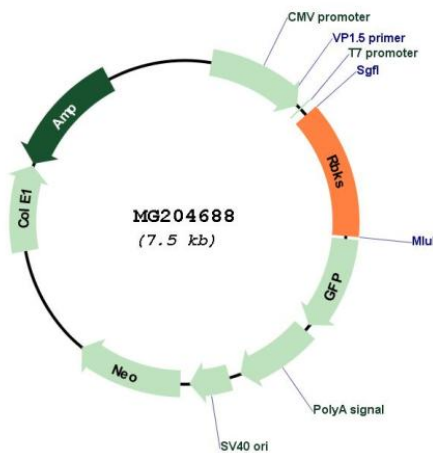
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_153196

ORF Size: 969 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:	<ol style="list-style-type: none">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.
RefSeq:	NM_153196.1 , NP_694876.1
RefSeq Size:	1047 bp
RefSeq ORF:	972 bp
Locus ID:	71336
UniProt ID:	Q8R1Q9
Cytogenetics:	5 B1
Gene Summary:	Catalyzes the phosphorylation of ribose at O-5 in a reaction requiring ATP and magnesium. The resulting D-ribose-5-phosphate can then be used either for sythesis of nucleotides, histidine, and tryptophan, or as a component of the pentose phosphate pathway. [UniProtKB/Swiss-Prot Function]