

Product datasheet for **RG205636**

RBKS (NM_022128) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBKS (NM_022128) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBKS
Synonyms:	RBSK; RK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205636 representing NM_022128 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGTCTGGGAAACCCAGAGGCAGTGGCAAGAGGAGGTGGCGCGGTGGTAGTGGTGGGCTCCT
GCATGACCGACCTGGTCAGTCTTACTTCTCGTTTGCCAAAACTGGAGAAACCATCCATGGACATAAGTT
TTTTATTGGCTTTGGAGGAAAGGTGCCAACCAGTGTGTCCAAGCTGCTCGGCTTGGAGCAATGACGTCC
ATGGTGTGTAAGTTGGCAAAGATTCTTTGGCAATGATTATATAGAAAACCTAAACAGAATGATATTT
CTACAGAATTTACATATCAGACTAAAGATGCTGTACAGGAAGTCTTCTATAATTGTCAATAATGAAGG
CCAGAATATCATTGTCATAGTGGCTGGAGCAAATTTACTTTTGAATACGGAGGATCTGAGGGCAGCAGCC
AATGTCATTAGCAGAGCCAAAGTCATGGTCTGCCAGCTCGAAATAACTCCAGCAACTTCTTTGGAAGCCC
TAACAATGGCCCGCAGGAGTGGAGTGAAAACCTTGTTCAATCCAGCCCCTGCCATTGCTGACCTGGATCC
CCAGTTCTACACCCTCTCAGATGTGTTCTGCTGCAATGAAAGTGAGGCTGAGATTTAACTGGCCTCACG
GTGGGCAGCGCTGCAGATGCTGGGAGGCTGCATTAGTGTCTTTGAAAAGGGGCTGCCAGGTGGTAAATCA
TTACCTTAGGGGCTGAAGGATGTGTGGTGTGTACAGACAGAACCTGAGCCAAAGCACATTCCACAGA
GAAAGTCAAGGCTGTGGATACCACGGGTGCTGGTGACAGCTTTGTGGGAGCTCTGGCCTTCTACCTGGCT
TACTATCCAAATCTGTCTTGGAAAGACATGCTCAACAGATCCAATTTTCATTGCAGCAGTCAGTGTCCAGG
CTGCAGGAACACAGTCATCTTACCCTTACAAAAAGACCTTCCGCTTACTCTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205636 representing NM_022128
Red=Cloning site Green=Tags(s)

MAASGEPQRQWQEEVAVVVVVVGSCMTDLVSLTSRLPKTGETIHGHKFFIGFGGKGANQCVQAARLGAMTS
 MVCKVKGDSFGNDYIENLKQNDISTEFTYQTKDAATGTASIIVNNEGQNIIVIVAGANLLLNTEDLRAAA
 NVISRKVMVCQLEITPATSLEALTMARRSGVKTLFNPAPAIADLDPQFYTLSDVFCNESEAEILTGLT
 VGSAADAGEAALVLLKRGCVVVIITLGAEGCVVLSQTEPEPKHIPTEKVKAVDTTGAGDSFVGALAFYLA
 YYPNLSLEDMLNRSNFIAAVSVQAAGTQSSYPYKDLPLTLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022128

ORF Size: 966 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.

RefSeq: [NM_022128.3](#)

RefSeq Size: 1196 bp

RefSeq ORF: 969 bp

Locus ID: 64080

UniProt ID: [Q9H477](#)

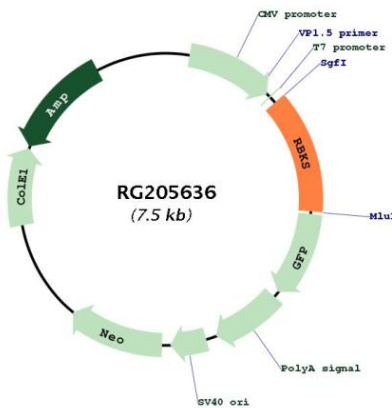
Cytogenetics: 2p23.2

Protein Families: Druggable Genome

Protein Pathways: Pentose phosphate pathway

Gene Summary: This gene encodes a member of the carbohydrate kinase PfkB family. The encoded protein phosphorylates ribose to form ribose-5-phosphate in the presence of ATP and magnesium as a first step in ribose metabolism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Product images:



Circular map for RG205636