

Product datasheet for **RR209384**

Ca5b (NM_001005551) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ca5b (NM_001005551) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ca5b
 Synonyms: Car5b
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR209384 representing NM_001005551
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAGTGATGAGTCACCTGAGAGTGAGTCTACAAGTCTCTTCGTGCACGCTGCTGTGGAGACGGTTCC
 GGGTCCGAGTTGGTGCCTGAGGTCCTGCAGTCTGTATACCTGCACATACAGAACCAGGAATCGAGC
 CTTACCTCCACTCTGGGAGAAGTTGGACCTTGTCTGCTGGTATCGGCAGTCACCCATCAACATCCGA
 TGGAGGGACAGTGTATGACCCTGGCTTAAAACCACTACCATTCTTATGACCAGCCACCTGCCTCC
 ACATCTGGAACAATGGTACTCCTTTCTGTGGAATTTGAAGATACTACAGATAAATCAGTAATTGAGGG
 AGGACCCCTGGAACATAACTACCGACTGAAGCAGTTTCATTTTCACTGGGGGCCATCGACGCTTGGGGC
 TCCGAGCACACTGTGGACAGCAAATGCTACCCAGCAGAGCTGCATTGGTACATTGGAATGCAGTCAAAT
 TTGAAAGTTTTGAGGATGCAGCACTGGAAGAAAATGGCTTGGCTGTGATAGGTGTATTTTAAAGCTAGG
 TAAACATCATAAAGAAGTGCAGAAATGGTGGACACTTTGCCATCAATTAAGCACAAGGATACCTGGTG
 AAATTTGGATCATTGACCCTTCTGTCTGATGCCTACTTGCCAGATTACTGGACCTATTCTGGATCTC
 TCACTACGCCCTCCCCTCAGAGTCTGTTACCTGGATCATTAGAAGCAGCCAGTTGAGGTCGACCATGA
 TCAGCTTGAACAGTTTCGACCCTGCTTTTACATCTGAGGGAGAGAAAAGAAAAGAAATGGTGGACAAC
 TTCCGCCCACTTCAACCTCTGATGAATCGCACTGTCCGTTTCATCCTTCCGCCATGACTATGTGCTCAATA
 TACAAGTGAAGCCGAGCCGACTGCCAGCGAAGTCTCCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209384 representing NM_001005551
Red=Cloning site Green=Tags(s)

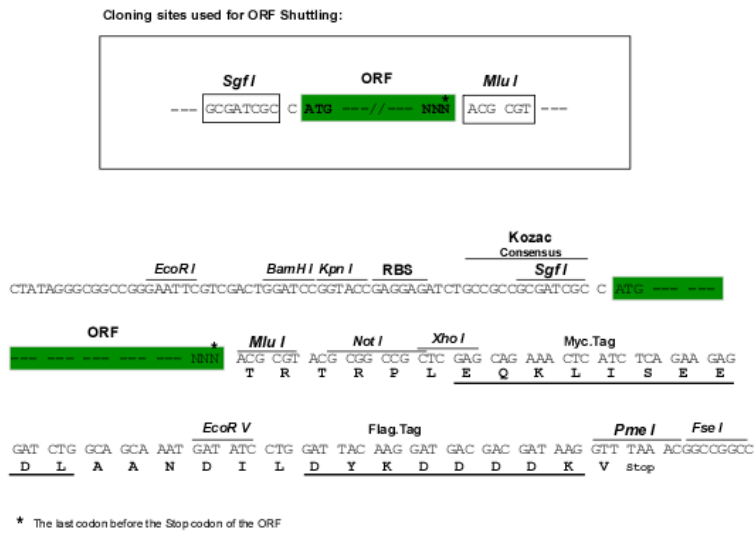
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 WRDSVYDPGLKPLTISYDPATCLHIWNGYSFLVEFEDTSDKSVIEGGPLEHNYRLKQFHFWGAIDAWG
 SEHTVDSKCYPAELHLVHNAVKFESFEDAALAEENGLAVIGVFLKLGKHHKELQKLVDTLPSIKHKDTLV
 KFGSFDPSCLMPTCPDYWTYSGSLTTPPLSESVTWI IKKQPVEVDHDQLEQFRTLLFTSEGEKEKRMVDN
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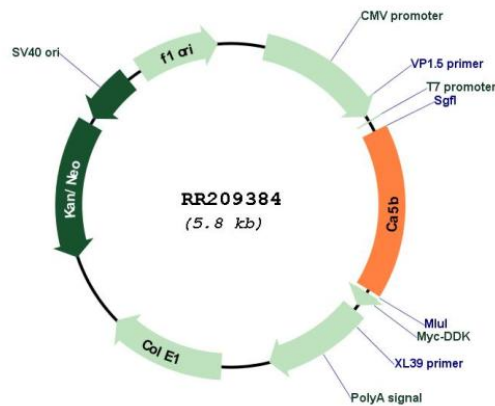
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001005551

ORF Size: 951 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_001005551.2 , NP_001005551.1
RefSeq Size:	1790 bp
RefSeq ORF:	954 bp
Locus ID:	302669
UniProt ID:	Q66HG6
Cytogenetics:	Xq14
MW:	36.6 kDa
Gene Summary:	Reversible hydration of carbon dioxide.[UniProtKB/Swiss-Prot Function]