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Product datasheet for SC304759

RHBG (NM_020407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	RHBG
Synonyms:	SLC42A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC304759 representing NM_020407.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGGGTCTCCTAGCCGCGCCGCGGGCCGGCGACTGCAGCTTCCCCTGCTGTGCCTCTTCCTCCAG
GGCGCCACTGCCGTCCTCTTTGCTGTCTTTGTCCGCTACAACCACAAAACCGACGCTGCCCTCTGGCAC
CGGAGCAACCACAGTAACGCGGACAATGAATTTTACTTTCGCTACCCAAGCTTCCAGGACGTGCATGCC
ATGGTCTTCGTGGGCTTTGGCTTCCTCATGGTCTTCCTGCAGCGTTACGGCTTCAGCAGCGTGGGCTTC
ACCTTCCTCCTGGCCGCCTTTGCCCTGCAGTGGTCCACACTGGTCCAGGGCTTTCTCCACTCCTTCCAC
GGTGGCCACATCCATGTTGGCGTGGAGAGCATGATCAATGCTGACTTTTGTGCGGGGGCCGTGCTCATC
TCCTTTGGTGCCGTCCTGGGCAAGACCGGGCCTACCCAGCTGCTGCTCATGGCCCTGCTGGAGGTGGTG
CTGTTTGGCATCAATGAGTTTGTGCTCCTTCATCTCCTGGGGGTGAGAGATGCCGGAGGCTCCATGACT
ATCCACACCTTTGGTGCCTACTTCGGGCTCGTCCTTTCGCGGGTTCTGTACAGGCCCCAGCTGGAGAAG
AGCAAGCACCGCCAGGGCTCCGTCTACCATTCAGACCTCTTCGCCATGATTGGGACCATCTTCCTGTGG
ATCTTCTGGCCTAGCTTCAATGCTGCACTCACAGCGCTGGGGGCTGGGCAGCATCGGACGGCCCTCAAC
ACATACTACTCCCTGGCTGCCAGCACCCTTGGCACCTTTGCCTTGTCAGCCCTTGTAGGGGAAGATGGG
AGGCTTGACATGGTCCACATCCAAAATGCAGCGCTGGCTGGAGGGGTTGTGGTGGGGACCTCAAGTGAA
ATGATGCTGACACCCTTTGGGGCTCTGGCAGCTGGCTTCTTGGCTGGGACTGTCTCCACGCTGGGGTAC
AAGTTCTTCACGCCCATCCTTGAATCAAAATTCAAAGTCCAAGACACATGTGGAGTCCACAACCTCCAT
GGGATGCCGGGGGTCCTGGGGGCCCTCCTGGGGGTCCTTGTGGCTGGACTTGCCACCCATGAAGCTTAC
GGAGATGGCCTGGAGAGTGTGTTTCCACTCATAGCCGAGGGCCAGCGCAGTGCCACGTCACAGGCCATG
CACCAGCTCTTCGGGCTGTTTGTCACACTGATGTTTGCCTCTGTGGGCGGGGGCCTTGGAGGGCTCCTG
CTGAAGCTACCCTTTCTGGACTCCCCCCCAGACTCCCAGCACTACGAGGACCAAGTTCACTGGCAGGTG
CCTGGCGAGCATGAGGATAAAGCCCAGAGACCTCTGAGGGTGGAGGAGGCAGACACTCAGGCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_020407
Insert Size:	1377 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020407.4
RefSeq Size:	1818 bp
RefSeq ORF:	1377 bp
Locus ID:	57127
UniProt ID:	Q9H310
Cytogenetics:	1q22
Protein Families:	Transmembrane
MW:	49.5 kDa

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Gene Summary: This gene encodes one of two non-erythroid members of the Rhesus (Rh) protein family. Non-erythroid Rh protein family members are mainly expressed in the kidney and belong to the methylammonium-ammonium permease/ammonia transporters superfamily. All Rh family proteins are predicted to be transmembrane proteins with 12 membrane spanning domains and intracytoplasmic N- and C-termini. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]
Transcript Variant: This variant (1) represents the shortest transcript but encodes the longest isoform (a).

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