OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC111686

RHD (NM_016124) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHD (NM_016124) Human Untagged Clone
Tag:	Tag Free
Symbol:	RHD
Synonyms:	CD240D; DIIIc; RH; Rh4; RH30; RHCED; RhDCw; RHDel; RHDVA(TT); RhII; RhK562-II; RhPI; RHPII; RHXIII
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC111686 sequence for NM_016124 edited (data generated by NextGen Sequencing)

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ATGAGCTCTAAGTACCCGCGGTCTGTCCGGCGCTGCCTGCCCCTCTGGGCCCTAACACTG
GAAGCAGCTCTCATTCTCCTCTTCTATTTTTTTACCCACTATGACGCTTCCTTAGAGGAT
CAAAAGGGGCTCGTGGCATCCTATCAAGTTGGCCAAGATCTGACCGTGATGGCGGCCATT
GGCTTGGGCTTCCTCACCTCGAGTTTCCGGAGACACAGCTGGAGCAGTGTGGCCTTCAAC
CTCTTCATGCTGGCGCTTGGTGTGCAGTGGGCAATCCTGCTGGACGGCTTCCTGAGCCAG
TTCCCTTCTGGGAAGGTGGTCATCACACTGTTCAGTATTCGGCTGGCCACCATGAGTGCT
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GTGATGGTGCTGGTGGAGGTGACAGCTTTAGGCAACCTGAGGATGGTCATCAGTAATATC
TTCAACACAGACTACCACATGAACATGATGCACATCTACGTGTTCGCAGCCTATTTTGGG
CTGTCTGTGGCCTGGTGCCTGCCAAAGCCTCTACCCGAGGGAACGGAGGATAAAGATCAG
ACAGCAACGATACCCAGTTTGTCTGCCATGCTGGGCGCCCTCTTCTTGTGGATGTTCTGG
CCAAGTTTCAACTCTGCTCTGCTGAGAAGTCCAATCGAAAGGAAGAATGCCGTGTTCAAC
ACCTACTATGCTGTAGCAGTCAGCGTGGTGACAGCCATCTCAGGGTCATCCTTGGCTCAC
CCCCAAGGGAAGATCAGCAAGACTTATGTGCACAGTGCGGTGTTGGCAGGAGGCGTGGCT
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GGTCTCCTGACAGGTTTGCTCCTAAATCTTAAAATATGGAAAGCACCTCATGAGGCTAAA
TATTTTGATGACCAAGTTTTCTGGAAGTTTCCTCATTTGGCTGTTGGATTTTAA

Clone variation with respect to NM_016124.3
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016124 unedited
GCATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGCTGGTGCTGGT
GGAACCCCTGCACAGAGACGGACACAGGATGAGCTCTAAGTACCCGCGGTCTGTCCGGCG
CTGCCTGCCCCTCTGGGCCCTAACACTGGAAGCAGCTCTCATTCTCCTCTTCTATTTTTT
TACCCACTATGACGCTTCCTTAGAGGATCAAAAGGGGCTCGTGGCATCCTATCAAGTTGG
CCAAGATCTGACCGTGATGGCGGCCATTGGCTTGGGCTTCCTCACCTCGAGTTTCCGGAG
ACACAGCTGGAGCAGTGTGGCCTTCAACCTCTTCATGCTGGCGCTTGGTGTGCAGTGGGC
AATCCTGCTGGACGGCTTCCTGAGCCAGTTCCCTTCTGGGAAGGTGGTCATCACACTGTT
CAGTATTCGGCTGGCCACCATGAGTGCTTTGTCGGTGCTGATCTCAGTGGATGCTGTCTT
GGGGAAGGTCAACTTGGCGCAGTTGGTGGTGATGGTGCTGGTGGAGGTGACAGCTTTAGG
CAACCTGAGGATGGTCATCAGTAATATCTTCAACACAGACTACCACATGAACATGATGCA
CATCTACGTGTTCGCAGCCTATTTTGGGCTGTCTGTGGCCTGGTGCCTGCCAAAGCCTCT
ACCCGAGGGAACGGAGGATAAAGATCAGACAGCAACGATACCCAGTTTGTCTGCCATGCT
GGGCGCCCTCTTCTTGTGGATGTTCTGGCCAAGTTTCAACTCTGCTCTGCTGAGAAGTCC
AATCGAAGGGAGAATGCCGTGTTCACACCTACTATGCTGTAGCAGTCAGCGTGGTGACAG
CCATCTCAGGGTCATCCTTGGCTCACCCNCAGGGNAAGATCAGCAGACTATGTGCACAGT
GCGTGTTGGCAAGAGCGTGGCTGTGGNTACCTCGTGTCACCTGATCCCTTCTNCGTGGCT
NGCCATGGNGCTGGGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016124 unedited
AAACAAGGAAAACACCANACACATTCCCCCCCCCTTTTTACTTGNNACGCGGCCGCATTT
NANGATCGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT
TTTTTTTTTTATGGGGAACATGGCTGTATTTTATTGGTGAATTCTACAGCGCATAAAAA
ATGGGGAAATTTTCCTCAAAAAGGGCAAAAAAAGGATTCAACTCCATTTTCTTTGACTCC
AGGGCCTGGGCAAACATTGGAAACTTTGCTGTCATAAGCGTTTCTCACCTCCAAATGCCG
GCAACAGTGAAAGGAATTTGTCTTGTTTTTAAACAGGCCTTGTTTTTTTTGGATGCTTTT
GCTTAAAATCCAACCTCCAAATGAGGAAACTTCCAAAAAACTTGGTCCTCAAAATATTTA
ACCTCATGAGGGGCTTTCCATTTTTTAAAATTTAGGAACAAACCTGTCCGGAGACCAAAC
GTGAAATCTTTCACCACGGCCAAGCTGATTTCCCCAATGTTGGGGAGGCCCTTGAAACCA
ATCCTGCCATTGGCCGGCTCCAACGGGTTCAAACACCCCCCCAACAATGTAACAAATCTT
CTCAAGCACAACCAACAGGTTCAACTTGAACCCCTTTATGGAACCCGCGGGGGAAATCCC
CCGATTTTGGTTCCAAAACCCCCGGAGAGACTTTGGGTTCCCCCGCGGGAAATTCCCCCC
ACCCCAAACACCCACCCCCTTGGCCACCCCCCCGTAAAAGGTGACCGGTTACAACAAGTA
TCCTCCCAGGTCCCCTTTTTTGGAAAACCCGATTTGTGAAAAAAAAGCCTGGTGGAATTT
CCCTGGGGGGGAGCCACACGGAATCCTCTTAAATGGGTTTACCCACTCTATTTGTTAAAA
TTAATAGGGGTTTAAACACGGCTTTTTCTTTTCTCATGGACCCCCCCCACAAAAATAATT
CAACCCTGGCCAAAATCCCCCACTAAACGGG

Restriction Sites: NotI-NotI

ACCN: NM_016124

Insert Size: 1550 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).

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_016124.2, NP_057208.2
RefSeq Size:	2709 bp
RefSeq ORF:	1254 bp
Locus ID:	6007
UniProt ID:	Q02161
Cytogenetics:	1p36.11
Domains:	Ammonium_transp
Protein Families:	Transmembrane
Gene Summary:	The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups, with variations due to deletions, gene conversions, and missense mutations. The Rh blood group includes this gene, which encodes the RhD protein, and a second gene that encodes both the RhC and RhE antigens on a single polypeptide. The two genes, and a third unrelated gene, are found in a cluster on chromosome 1. The classification of Rh-positive and Rh-negative individuals is determined by the presence or absence of the highly immunogenic RhD protein on the surface of erythrocytes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.