

Product datasheet for **RR201146**

Rdh10 (NM_181478) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh10 (NM_181478) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rdh10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201146 representing NM_181478 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATCGTGGTGGAGTTCTTCCTGGTCACTTTCAAAGTGCTGTGGCGTTCTGTGGCCGCGGCGC
GCTGGCTGGTGC GGCCCAAGGAGAAGAGCGTGGCCGGCCAGGTGTGCCTCATCACGGCGCGGGCAGCGG
CCTGGCCGCCTCTTCGCTCTGGAGTTCGCTCGACGCGGGCACCTGCTGGTTCTCTGGACATCAACACG
CAGAGCAATGAGGAGACCGCAGGCATGGTGCGCCACATCTACCGGACCTGGAGGCGGCCGACGCCGCTG
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TGATGTGGGAAGAGAGAGAATGTCTACCTGACAGCTGAAAGGGTCCGCAAGGAGTTGGTGGGCTCG
GTCCTGGTCAATAACGCTGGTGTGGTTTTCTGGACATCACCTTCTGGAATGTCTGATGAGCTCATTGAGA
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TAATCATGGCCATATTGTGACGGTGGCAGCTCCCTGGGACTGTTGAGCACTGCTGGAGTTGAGGATTAC
TGTGCCAGTAAGTTGGAGTTGGGTTTTTCATGAATCTCTGAGTCATGAACTGAAGGCTGCTGAAAAGG
ATGGAATTAACAACCTTTGGTTTTGCCCTTACCTTGTAGACACGGGCATGTTGAGGCTGCCGAATCAG
AAAAGAAATCGAGCCCTTTTGGCCCTTTGAAGCCGATTACTGTGTGAAGCAGCCATGAAGGCCATC
CTCACTGACCAGCCATGATCTGACCCCTCGTCTCATGTACATCGTGACATTATGAAGAGCATCCTTC
CCTTGAAGCAGTCGTGTGCATGTATCGATTTCTAGGAGCAGACAAGGTATGTACCCCTTTATTGCTCA
GAGAAAACAAGCCACAACAATAATGAAGCAAAAATGGAATC

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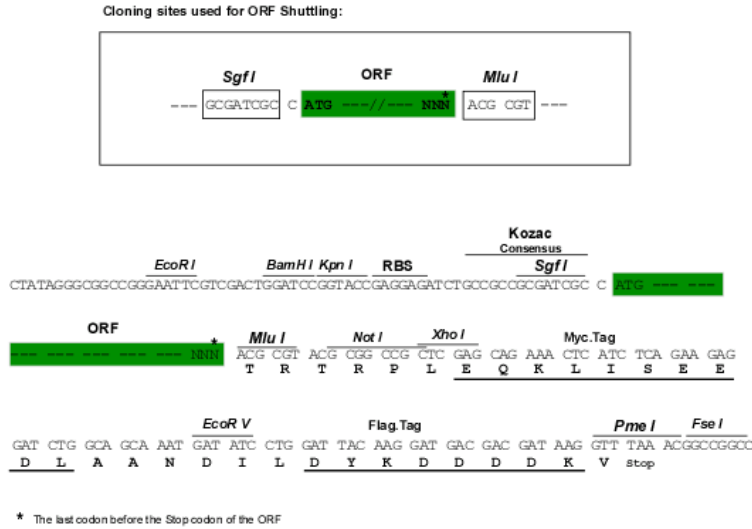
Protein Sequence: >RR201146 representing NM_181478
Red=Cloning site Green=Tags(s)

MNIVVEFFLVTFKVLWAFVLAARWLVRPKEKSVAGQVCLITGAGSGLGRLFALEFARRRALLVLWDINT
 QSNEETAGMVRHIYRDLEAADAALQAGNGEEEILPPCNLQVFTYTCVGVKRENVYLTAEVRKVEGEVS
 VLVNAGVVS~~GHLL~~ECPEDELIERTMMVNCHAHFWTTKAF~~LPTMLE~~INHGHIVTVASSLGLFSTAGVEDY
 CASKFGVVGFHESLSHELKAAEKDGIK~~TLVCPYL~~VDTGMFRGCRIRKEIEPFLPPLKPDYCVKQAMKAI
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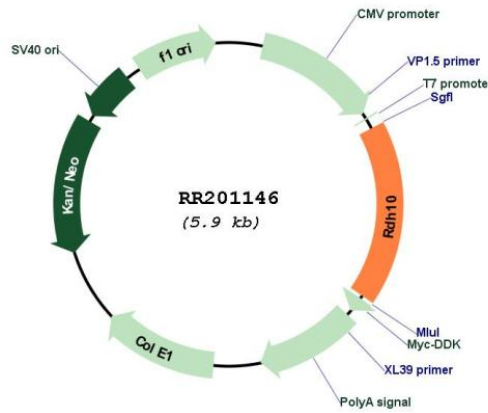
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_181478

ORF Size:	1023 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_181478.2 , NP_852143.1
RefSeq Size:	1061 bp
RefSeq ORF:	1026 bp
Locus ID:	353252
UniProt ID:	Q80ZF7
Cytogenetics:	5q11
MW:	38.1 kDa
Gene Summary:	human homolog oxidizes all-trans retinol to all-trans retinal using NADP as its preferred cofactor; involved in the photic visual cycle [RGD, Feb 2006]