

Product datasheet for **MG204965**

Rdh14 (NM_023697) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rdh14 (NM_023697) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rdh14
Synonyms: 3110030G19Rik; AW215439; PAN2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204965 representing NM_023697
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGTGGCTAGTGTGGCCGACGCTCCTGGCCGCACTGGGCGGGCGCTGTGGCTGGCGGCCCGG
GGTTCTCTGGGCAAGAAACCAGCGGCAGCAGGGAGGCGGGACCCGGGCCTCATGCACGGGAAGACAGT
GCTGATCACCGGAGCAAACAGCGCCTGGGCCGTGCCACCGGGCGGAGCTGCTCCGCTGGGGCGCGG
GTCATCATGGGATGTCGGGACCGCGCTCGAGCAGAGGAGGCGGCCGGTCAGCTCAGGCAGGAGCTCTGTC
AGGCTGGGGCGCCGGGCCGACGCACTGATGGCCAGCTGGTCGTTAAGGAGCTGGACCTGCCTCGCT
GCGCTCAGTGCAGCTTTCTGCCAAGAAGTGTACAGGAGGAGCCAGGCTAGACGTCCTGATCAATAAT
GCGGGGTTTTTCCACTGCCCGTATACGAAGACTGAAGATGGGTTTGAGATGCAGTTTGGAGTGAACCATC
TGGGCCACTTCTACTACCAATCTTCTCCTTGGACTCCTCAAAAGTTTCAAGTCCAGCTCCAGCAGGATTGTAGT
CGTTTTCTCCAACTTTATAAATATGGAGAAATCAACTTTGAAGACTTGAACAGTGAAGAAAGCTATAAT
AAAAGCTTCTGTTATAGTCGAAGCAAATGGCTAACATTTCTTTCACAAGAGAATTAGCCCGTCGCTTAG
AAGGAACAACGTGACTGTCAATGTGCTGCATCCTGGTATTGTGCGAACAACCTAGGGAGGCATATTCA
CATCCCAGTGTGCAAGACCCTTTTCAATTTGGTATCCTGGGCTTTTTTCAAACTCCATTAGAAGGT
GCCAGACTTCCATCTATTTAGCCTGTTACCTGACGTAGAAGGTGTGTCAGGAAGTACTTTGGAGATT
GTAAGGAGGAAGAGCTTTGCCAAAGCTATGGATGAGTCAGTGGCAAGAAAAGTGTGGGATATCAGTGA
AGTGATGGTTGGCATTCTAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204965 representing NM_023697
 Red=Cloning site Green=Tags(s)

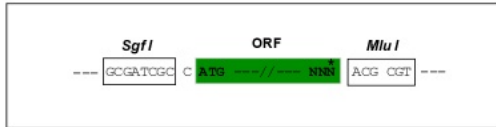
MAVASVAAALLAALGGALWLAARRFSGPRNQRQQGGDPGLMHGKTVLITGANSGLGRATAAELLRLGAR
 VIMGCRDRARAEEAAGQLRQELCQAGGAGPDGTDGQLVVKELDLASLRSVRAFQCQLLQEEPRLDVLI
 AGVFHCPYTKTEDGFEMQFVGNHLGHFLLTNLLGLLKSSAPSRIVVVSSKLYKYGEINFEDLNSEQSYN
 KSFCYSRSLANILFTRELARRLEGNTVTVNLHPGIVRTNLGRHIHIPLLARPLFNLSWAFFKTPLEG
 AQTISIYLACSPDVEGVSGRYFGDCKEEELLPKAMDES VARKLWDISEVMGILK

TRTRPLE - GFP Tag - V

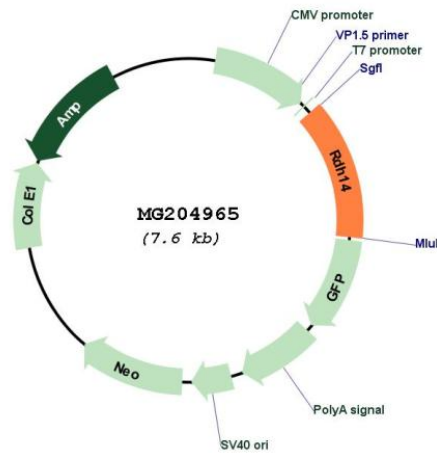
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_023697

ORF Size: 1002 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_023697.1 , NP_076186.1
RefSeq Size:	1492 bp
RefSeq ORF:	1005 bp
Locus ID:	105014
UniProt ID:	Q9ERI6
Cytogenetics:	12 A1.1
Gene Summary:	Retinol dehydrogenase with a clear preference for NADP. Displays high activity towards 9-cis, 11-cis and all-trans-retinol. Shows a very weak activity towards 13-cis-retinol. Has no activity towards steroids.[UniProtKB/Swiss-Prot Function]