

Product datasheet for **MG215363**

Rdh12 (NM_030017) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh12 (NM_030017) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rdh12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215363 representing NM_030017 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTTATCTTGGTACTGCTTACGTCCTTCTCTCCATCTTGTATCTGACAGCTCCATCCATCAGGA
AGTTCTTTGCTGGTGGAGTTTGTACAACAAATGTCCAGATCCCAGGGAAGGTAGTGGTCATCACAGGTGC
CAACACAGGCATTGGCAAGGAGACAGCCAGAGAGCTTGCTCGAAGAGGAGCACGAGTATACATTGCTTGC
CGAGATGTGCTGAAGGGAGAGTCTGCTGCTAGTAAAATCCGAGCAGATACCAAGAACTCCAGGTGCTAG
TGCGGAAATTGGACCTGTCTGACACCAAATCCATCCGAGCCTTTGCTGAACGCTTCTAGCAGAGGAAAA
GAAGCTTCATATTTTATCAACAATGCAGGAGTGATGATGTGCCATATTCTAAGACAACAGATGGCTTT
GAGACCCACTTTGGAGTCAACCACCTGGGACACTTTCTTCTTACATACCTGCTGTTGGAGAGGCTGAAGG
AGTCTGCTCCCGCACGGGTGGTCAACCTTTCTCAATAGCTCACCTGATTGGCAAGATCCGTTTCCATGA
CCTCCAAGGCCAGAAACGATACTGCAGTGTCTTTGCCTATGGCCACAGCAAGCTGGCCAATCTGCTCTTC
ACTCGAGAAGTGGCTAAGCGGCTCAAGGGACTGGAGTCAACCGCTATGCGGTTCAACCGGGCGTTGTAT
TGTCAGAGATCACCAGGAACTCCTACCTGCTGTGTTTGTATGGCGGCTCTTCTCACCTTCTTCAAGTC
CACTTCTCAGGGGCTCAGACCAGCCTGCACTGTGCTCTGGCGGAGGACCTAGAGCCCTGAGTGGAAAG
TACTTCAGTGACTGCAAGAGGATGTGGTATCCTCAAGGGCCCGAACAAGAAAACAGCTGAGCGATTGT
GGAACGTCAGCTGCGAGCTTCTAGGAATCCAGTGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

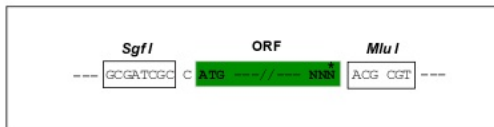
MLFILVLLTSFLSILYL TAPSIRKFFAGGVCTTNVQIPGKVVVITGANTGIGKETARELARRGARVYIAC
 RDVLKGEAASEIRADTKNSQVLVRKLDLSDTKSIRAF AERFLAEKKLHILINNAGVMMCPYSKTTDGF
 ETHFGVNLGHFLLTYLLERLKE SAPARVVNLSIAHLIGKIRFHDLQGGKRYCSAFAYGHSKLANLLF
 TRELAKRLQGTGVTAYAVHPGVVLS EITRNSYLLCLLWRLFSPFFKSTSQGAQTSLHCALAEADLEPLSGK
 YFSDCKRMWVSSRARNKKT AERLWNVSCCELLGIQWE

TRTRPLE - GFP Tag - V

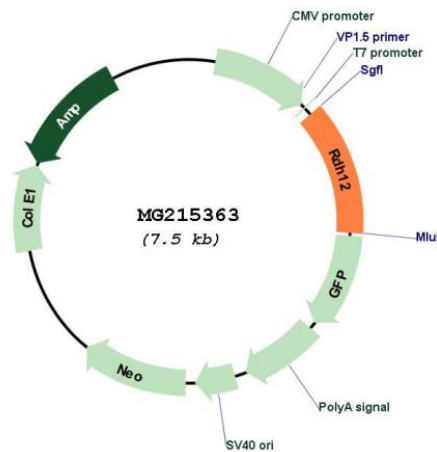
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_030017

ORF Size: 948 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_030017.4 , NP_084293.1
RefSeq Size:	1674 bp
RefSeq ORF:	951 bp
Locus ID:	77974
UniProt ID:	Q8BYK4
Cytogenetics:	12 C3
Gene Summary:	The protein encoded by this gene is an NADPH-dependent retinal reductase whose highest activity is toward 9-cis and all-trans-retinol. The encoded enzyme also plays a role in the metabolism of short-chain aldehydes but does not exhibit steroid dehydrogenase activity. Defects in the human gene are associated with Leber congenital amaurosis type 13, and Retinitis Pigmentosa 53. [provided by RefSeq, Sep 2015]