

Product datasheet for **RG209596**

RD3 (NM_183059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RD3 (NM_183059) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RD3
Synonyms:	C1orf36; LCA12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209596 representing NM_183059 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTCTCTCATCTCATGGCTTCGGTGAACGAGGCCCATCCCGGCTGTCCACCAGGAGCCCTGCTGAGA
TGGTGCTGGAGACGCTTATGATGGAGCTGACGGGGCAGATGCGAGAGGCTGAGAGGCAGCAGCGGGAGCG
CAGCAATGCGGTGAGAAAGGTCTGCACCGGTGTGGACTACAGCTGGCTGGCCAGCACACCCCGGTCCACC
TATGACCTCAGCCCCATTGAGCGGTTGCAGCTGGAAGATGTCTGCGTTAAGATCCACCCATCCTATTGTG
GGCCTGCTATCCTCAGGTTCCGGCAGCTGCTGGCGGAGCAGGAGCCCGAGGTGCAGGAGGTGTCCAGCT
CTTCGCTCGGTGCTGCAGGAGGTCTGGAGAGGATGAAGCAGGAAGAGGAGGCCACAAGCTGACGCGC
CAGTGGAGCCTGCGGCCCGCGGCAGCCTGGCCACCTTCAAGACCCGCGCGCGCATCTCGCCCTTCGCCA
GCGACATCAGGACCATCTCCGAGGACGTGGAGCGGGACACACCGCCGCGCCACTGCGGTCTGGAGCATGCC
CGAATTCGGGCGCCCAAGCCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG209596 representing NM_183059 Red=Cloning site Green=Tags(s)
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MSLISWLRWNEAPSRLSTRSPAEMVLETLMMLTGMREAEQQRRERSNAVRKVCTGVDYSWLASTPRST
YDLSPIERLQLEDVCVKIHPSYCGPAILRFRQLLAEQEPEVQEVSQLFRSVLQEVLERMKQEEEEAHKLTR
QWSLRPRGSLATFKTRARISPFASDIRTISEDVERDTPPPLRSWSMPEFRAPKAD

TRTRPLE - GFP Tag - V

Restriction Sites:	SgfI-MluI
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Cloning Scheme:


ACCN: NM_183059

ORF Size: 585 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:

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_183059.3](#)

RefSeq Size: 3351 bp

RefSeq ORF: 588 bp

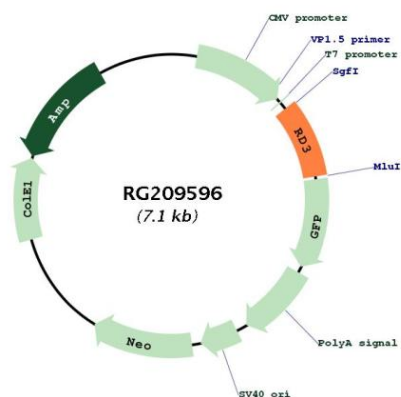
Locus ID: 343035

UniProt ID: [Q7Z3Z2](#)

Cytogenetics: 1q32.3

Gene Summary: This gene encodes a retinal protein that is associated with promyelocytic leukemia-gene product (PML) bodies in the nucleus. Mutations in this gene cause Leber congenital amaurosis type 12, a disease that results in retinal degeneration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG209596