

Product datasheet for **RG209560**

OA1 (GPR143) (NM_000273) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OA1 (GPR143) (NM_000273) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: OA1
Synonyms: NYS6; OA1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209560 representing NM_000273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCCCGCGCCTAGGGACCTTCTGCTGCCCCACGCGGGACGCAGCCACGCAGCTCGTGCTGAGCT
 TCCAGCCGCGGGCCTTCCACGCGCTCTGCCTGGGCAGCGCGGGCTCCGCTTGGCGCTGGGCCTTCTGCA
 GCTGCTGCCCGCGCCGCCCGCGGGCCCCGGTCCCCGCGACGTCCCCGCGGCCTCGG[AT]CCGC
 ATCCTGCGCGCTGCCGCTGCCTGCGACCTTCTCGGCTGCCTGGGTATGGTATCCGGTCCACCGTGTGGT
 TAGGATCCCAAATTTTGTGACAGCGTCTCGGATATGAACCACACGAAATTTGGCCTGCTGCTTTCTG
 CGTGGGAGTGCGATGTGGATCCAGCTGTTGTACAGTGCCTGCTTCTGGTGGCTGTTTTGCTATGCAAGT
 GATGCTTATCTGGTATCCGGAGATCCGGCAGGACTGAGCACCATCCTGCTGTATCACATCATGGCGTGGG
 GCCTGGCCACCCTGCTCTGTGTGGAGGGAGCCGCATGCTCTACTACCCTTCCGTGTCCAGGTGTGAGCG
 GGGCCTGGACCACGCCATCCCCACTATGTACCATGTACCTGCCCTGCTGCTGGTTCTCGTGGCGAAC
 CCCATCCTGTTCCAAAAGACAGTGACTGCAGTGGCCTTTTACTTAAAGGAAGACAAGGCATTTACACGG
 AGAACGAGAGGAGGATGGGAGCCGTGATCAAGATCCGATTTTTCAAATCATGCTGGTTTTAATTTTGT
 TTGGTTGTGCAATATCATCAATGAAAGCCTTTTATTCTATCTTGAGATGCAAACAGATATCAATGGAGGT
 TCTTTGAAACCTGTCAGAACTGCAGCAAGACCACATGGTTTATTATGGGAATCCTGAATCCAGCCAGG
 GATTTCTTGTCTTTGGCCTTCTACGGCTGGACAGGATGCAGCCTGGGTTTTTCAGTCTCCAGGAAGGA
 GATCCAGTGGAATCACTGACCACCTCGCTGCTGAGGGGGCTCACCCATCCCCACTGATGCCCCATGAA
 AACCTGCTTCCGGGAAGGTGTCTCAAGTGGTGGGCAGACTTCTGACGAAGCCCTGAGCATGCTGTCTG
 AAGTTCTGATGCCAGCACAATTGAAATTCACACTGCAAGTGAATCCTGCAACAAAAATGAGGGTGACCC
 TGCTCTCCAACCCATGGAGACCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209560 representing NM_000273
 Red=Cloning site Green=Tags(s)

MASPRLGTFCCPTRDAATQLVLSFQPRAFHALCLGSGGLRLALGLLQLLPGRRPAGPGSPATSPASXXR
 ILRAAAACDLLGCLGMVIRSTVWLGFNPFVDSVSDMNHTEIWPAAFCVGSAMWIQLLYSACFWWLFYAV
 DAYLVIRRSAGLSTILLYHIMAWGLATLLCVEGAAML YPVSVSR CERGLDHAIPHVVTMYLPLLLVLVAN
 PILFQKTVTAVASLLKGRQGIYTENERRMGAVIKIRFFKIMLVLIICWLSNIINESLLFYLEMQTDINGG
 SLKPVRTAAKTTWFIMGILNPAQGFLLSLAFYGWGTGCSLGFQSPRKEIQWESLTTSAAGAHP SPLMPHE
 NPASGKVSQVGGQTSDEALSMLSEGS DASTIEIHTASESCNKNEGDPALPTHGDL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2163_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000273

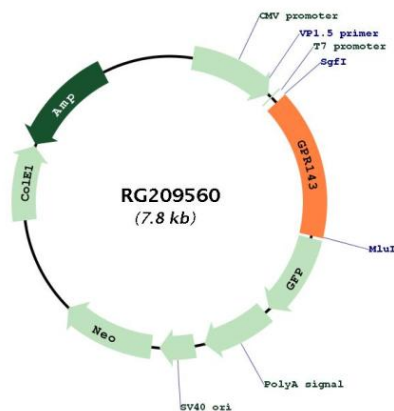
ORF Size: 1215 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_000273.2 , NP_000264.2
RefSeq Size:	1711 bp
RefSeq ORF:	1215 bp
Locus ID:	4935
UniProt ID:	P51810
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a protein that binds to heterotrimeric G proteins and is targeted to melanosomes in pigment cells. This protein is thought to be involved in intracellular signal transduction mechanisms. Mutations in this gene cause ocular albinism type 1, also referred to as Nettleship-Falls type ocular albinism, a severe visual disorder. A related pseudogene has been identified on chromosome Y. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RG209560