

Product datasheet for **SC122556**

OA1 (GPR143) (NM_000273) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OA1 (GPR143) (NM_000273) Human Untagged Clone
Tag:	Tag Free
Symbol:	OA1
Synonyms:	NYS6; OA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000273 edited
 GGCACGAGGCCTGGCTCTACTGCAGGCGCTGGGGTTGGGGTGGGGGAGAGGCCAGGGC
 ACATGATGCCGCCCCAGCCCGCCAGCACATGACCCAGGCAGGCCGGCGGGTCTGGC
 ACACCCGAGCCGCGTCCGCGAACACAGCCCATGGCCTCCCGCGCCTAGGGACCTTCTGC
 TGCCCCACGCGGGACGCAGCCACGCAGCTCGTGTGAGCTTCCAGCCGCGGGCTTCCAC
 GCGCTCTGCTGGGACGCGGGCTCCGCTTGGCGCTGGGCTTCTGCAGCTGTGCC
 GGCCGCGGGCCCGGGCCCGGGTCCCGCGAGCTCCCGCGGCTCGGTCCGCATC
 CTGCGCGCTGCCGTGCCTGCGACCTTCTCGGCTGCCTGGGTATGGTGATCCGGTCCACC
 GTGTGGTTAGGATTCCCAAATTTTGTGACAGCGTCTCGGATATGAACCACACGAAATT
 TGGCTGTGCTTCTGCGTGGGAGTGCATGTGGATCCAGCTGTTGTACAGTGCCTGC
 TTCTGGTGGCTGTTTGTATGCAGTGGATGCTTATCTGGTGATCCGGAGATCGGCAGGA
 CTGAGCACCATCTGCTGTATCACATCATGGCGTGGGGCTGGCCACCCTGCTGTGTG
 GAGGGAGCCGCATGCTCTACTACCTTCCGTGTCCAGGTGTGAGCGGGCTGGACCAC
 GCCATCCCCACTATGTACCATGTACCTGCCCTGCTGTGTTCTCGTGGCGAACCC
 ATCCTGTTCCAAAAGACAGTGCAGTGCAGTGGCCTTTTACTTAAAGGAAGACAAGGCATT
 TACACGGAGAACGAGAGGAGGATGGGAGCCGTGATCAAGATCCGATTTTTCAAATCATG
 CTGGTTTTAATTTTGTGGTTGTGCAATATCATCAATGAAAGCCTTTTATTCTATCTT
 GAGATGCAAACAGATATCAATGGAGTTCTTTGAAACCTGTGAGAACTGCAGCCAAGACC
 ACATGGTTTATTATGGGAATCCTGAATCCAGCCAGGGATCTCTTGTCTTTGGCCTTCTA
 CGGCTGGACAGGATGCAGCCTGGGTTTTAGTCTCCAGGAAGGAGATCCAGTGGGAATC
 ACTGACCACCTCGGCTGTGAGGGGGCTCACCCATCCCCACTGATGCCCCATGAAAACCC
 TGCTTCCGGGAAGGTGTCTCAAGTGGGTGGCAGACTTCTGACGAAGCCCTGAGCATGCT
 GTCTGAAGTTCTGATGCCAGCACAAATTGAAATTCACACTGCAAGTGAATCCTGCAACAA
 AAATGAGGGTGACCTGCTCTCCAACCATGGAGACTATGAAGGGGATGTGCTGGGG
 TCCAGACCCCATATTCTCAGACTCAACAATTCTGTTCTTTAGAACTGTGTTCTCACCT
 TCCCAACTGCAGTCCGAAAGTGTAGCGGCCCCCAAACCTTGTCTCATCACCAGTTAG
 AGCTTCTTCCGAAGGGCCTTTAGGATAGGAGAAAGGGTTCATGCACACACGTGTGAGAA
 TGGAAAGAGCCCCCTCCAGACCACTCTACAGCTGCTTAGCCTTAGTTGCCACTAGGAAGT
 TTTCTGAGGCTGGCTGTAAGTAAGTGAAGTCCACATCCTTGGGGAAGTAGTTAAATA
 AAATAGTTATGACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000273 unedited
 TACGTTCAAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGCCTGGC
 TCTACTGCAGGCGCTGGGGTTGGGGTGGGGGAGAGGCCAGGGCACATGATGCCGCCCC
 CAGCCCGCCAGCACATGACCCAGGCAGGCCGGCGGGTCTGGCACACCCGAGCCGCGT
 CCGCGAACACAGCCCATGGCCTCCCGCGCCTAGGGACCTTCTGTGCCCCACGCGGGAC
 GCAGCCACGCAGCTCGTGTGAGCTTCCAGCCGCGGGCCTTCCACGCGCTCTGCCTGGC
 AGCGGCGGGCTCCGCTTGGCGCTGGGCCTTCTGCAGCTGCTGCCGCGCCCGGCCCGCG
 GGCCCGGGTCCCGCGACGTCCCGCGGCCTCGGTCCGCATCCTGCGCGCTGCCGCT
 GCCTGCGACCTTCTCGGCTGCCTGGGTATGGTGATCCGGTCCACCGTGTGGTTAGGATTC
 CCAAATTTTGTGACAGCGTCTCGGATATGAACCACACGAAATTTGGCCTGCTGCTTTC
 TGCGTGGGAGTGCATGTGGATCCAGCTGTTGTACAGTGCCTGCTTCTGGTGGCTGTTT
 TGCTATGCAGTGGATGCTTATCTGGTGATCCGGAGATCGGCAGGACTGAGCACCATCTG
 CTGTATCACATCATGGCGTGGGGCTGGCCACCCTGCTCTGTGTGGAGGGAGCCGCATG
 CTCTACTACCTTCCGTGTTCAAGTGTGAGCGGGCCTGGACCAGCCATCCCCACTAT
 GGTACCATGTTACTGCCCTGGTGGTGGTTTTCGGGCGAAACCCATTCTGTTCCAAA
 AGACAGGGACTGCAGGGCCTTTTACTTAAAGGAAGAAAAGGATTTCCACGGAGAAAA

Restriction Sites: Please inquire
ACCN: NM_000273
Insert Size: 1729 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](#)

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.

RefSeq: [NM_000273.1](#), [NP_000264.1](#)

RefSeq Size: 1607 bp

RefSeq ORF: 1275 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]