

Product datasheet for **MG216570**

Gpr143 (NM_010951) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpr143 (NM_010951) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gpr143
Synonyms: Oa1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216570 representing NM_010951
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCCCCGCGCCTGGGAATTTCTGCTGCCCTACGTGGGACGCAGCCACACAGCTGGTGCTAAGCT
 TCCAACCGCGGGTGTTCATGCCCTGTGCCTGGGAAGCGGCACTCTCCGCTGGTGTGGCCTCCTTCA
 GCTCCTATCAGGGCGTCGATCTGTTGGTACAGGGCGCCTGCGACATCCCCAGCCGCTCAGTCCACATC
 CTCGGTGTGCCACTGCCTGTGACTTGGCTGGCTGGGAATCGTTATCAGGTCCACAGTGTGGATAG
 CCTACCCAGAGTTCATTGAAAACATTTCCAATGTGAATGCAACAGACATTTGGCCTGCTACTTTCTGTGT
 GGGAGCGCAATGTGGATCCAGCTGTTGTACAGTGCCTGCTTCTGGTGGCTCTTTTGCTATGCAGTTGAT
 GTATACTTGGTGATCAGGAGATCGCGGGACGGAGCACCATCCTGCTGTACCACATCATGGCCTGGGGCC
 TGGCTGTGCTGCTCTGTGTGGAGGGAGCAGTCACTGCTACTACCTTCTGTGTCCAGGTGTGAGAGGGG
 CCTGGACCATGCCATCCCCATTATGTCACCACATACTTGCCACTTCTGCTTGTCCCTGGTGGCAACCCA
 ATCCTGTTTCAAGACAGTGTGACTTCAAGTGGCCTCTTTACTGAAAGGAAGAAAAGGTGTTACACAGAGA
 ATGAGAGACTGATGGGGCTGTGATCAAGACCCGTTTTTCAAATAATGCTGGTGTAAATTGCATGTTG
 GTTGTCCAATATCATCAATGAAAGTCTTTTGTCTACCTTGAATGCAACCAGATATCCATGGAGGCTCT
 CTGAAACGCATCCAGAATGCAGCTAGGACCACATGGTTTATAATGGGAATACTGAATCCAGCCCAAGGAC
 TTCTCTTGTCTCTGGCCTTCTATGGCTGGACAGGATGCAGCCTGGATGTCCATCCTCCCAAGATGGTGAT
 TCAGTGGGAAACAATGACTGCCTCTGCTGCTGAGGGCACGTACCAGACCCCTGTGCGTTCCTGTGTGCC
 CATCAAAACCCAGGAAGTTGTATGTGTGGGGGACATACTTCTGATGAGGTGCTGAGCATTTTGTCTG
 AAGATTCAGATGCCAGTACTGTTGAAATCCATACTGCAACTGGGTCTGCAACATAAAGGAAGTTGACTC
 CATTTCCAAGCCAGGGGGAATC

ACGGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**



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MASPRLGIFCCPTWDAATQLVLSFQPRVFHALCLGSGTLRLVLGLLQLLSGRRSVGHRAPATSPAASVHI
 LRAATACDLLGCLGIVIRSTVWIAYPEFIENISNVNATDIWPATFCVGSAMWIQLLYSACFWWLFYAVD
 VYLVIIRRSAGRSTILLYHIMAWGLAVLLCVEGAVMLYPSVSRRCERGLDHAIPHYVTTYLP LLLVLVANP
 ILFHKTVTSVASLLKGRKGVYTENERLMGAVIKTRFFKIMLVL IACWLSNIINESLLFYLEMQPDIHGGS
 LKRIQNAARTTWFIMGILNPAQGLLLSLAFYGTGCSLDVHPPKMVIQWETMTASAAEGTYQTPVRSCVP
 HQNPRKVVCVGGHTSDEVL SILSESDASTVEIHTATGSCNIKEVDSISQAQGEL

TRTRPLE - GFP Tag - V

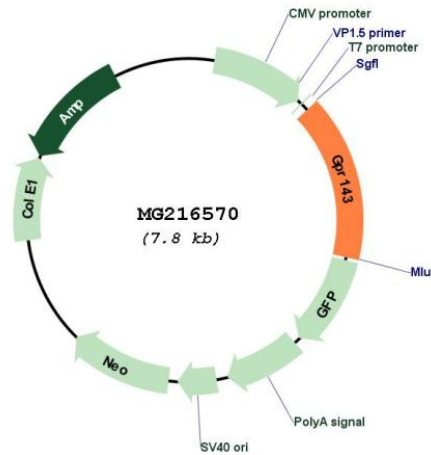
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_010951

ORF Size:	1215 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_010951.3 , NP_035081.3
RefSeq Size:	1651 bp
RefSeq ORF:	1218 bp
Locus ID:	18241
UniProt ID:	P70259
Cytogenetics:	X 68.46 cM
Gene Summary:	<p>Receptor for tyrosine, L-DOPA and dopamine. After binding to L-DOPA, stimulates Ca(2+) influx into the cytoplasm, increases secretion of the neurotrophic factor SERPINF1 and relocalizes beta arrestin at the plasma membrane; this ligand-dependent signaling occurs through a G(q)-mediated pathway in melanocytic cells. Its activity is mediated by G proteins which activate the phosphoinositide signaling pathway. Plays also a role as an intracellular G protein-coupled receptor involved in melanosome biogenesis, organization and transport. [UniProtKB/Swiss-Prot Function]</p>