

Product datasheet for **MG223944**

Gpr132 (NM_019925) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr132 (NM_019925) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpr132
Synonyms:	G2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223944 representing NM_019925 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGATCAGAACCTACCAATGCAGCAGGAAACACCACACTGGGGTTACCTCCGTTCTTCAGAGCACCT
CAGTACCTTCTTCTGAGACCTGCCACGTCTCCTACGAGGAGAGCAGAGTGGTCTGGTGGTGTACAG
TGCCGTGTGCCTGCTGGGCTACCAGCCAACCTGCCTGACTGCCTGGCTGACGCTGCTGCAAGTCTGCAG
AGGAACGTGCTAGCCGTCTACCTGTTCTGCCTGTCCCTCTGTGAGCTGCTCTACATCAGCACGGTGCCAT
TGTGGATCATCTACATCCAGAATCAGCACAAATGGAACCTGGGTCCGAGCCTGCAAGGTGACTGCTTA
CATCTTCTTCTGCAACATCTACATCAGCATCCTCTTGCTCTGCTGCATTTCTGCGACCGCTACATGGCC
GTGGTCTATGCACTGGAGAGCCGAGGCCACCGCCACCAGAGGACTGCTGTCAACATTTCTGCGTGTGTGA
TTCTTCTTGTGGACTTGTAACTATCCAGTGTGGACATGAAGGTGGAGAAGAGTTTCTGCTTTGAGCC
CCTGAGGATGAACAGCAAGATAGCCGGCTACCACTACCTGCGTTTACCTTTGGCTTTGCCATCCCTCTC
GGCATCCTGGCGTTCACCAATCACCAGATCTCCGGAGCATCAAACCTCAGTGACAGCCTGAGCGCTGCGC
AGAAGAACAAGGTGAAGCGCTCCGCCATCGCGTCTGTCACCATCTTCTGGTCTGCTTTGCTCCCTACCA
CGTGGTACTCCTCGTCAAAGCTGCCAGCTTTTCTTCTACCAAGGAGACATGGATGCCGTGTGTGCCTTT
GAAAGCAGACTGTACACAGTCTCTATGGTGTCTGTGCCTGTCTACAGTCAACAGTGTGGCTGACCCCA
TCATCTACGTGCTGGGTACAGACCACTCTCGGCAAGAAGTGTCCAGAATCCACACAGGGTGGAAAAAGTG
GTCCACAAAGACATATGTTACATGCTCAAAGGACTCTGAGGAGACACACTTGCCACAGAGCTTTCAAAC
ACATACACCTTCCCAATCCCGCGCACCTCCAGGATCACAGCCAGCGAAGCTAGGTTTACTGTGCTCGC
CAGAGAGACTGCCTGAGGAGCTCTGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223944 representing NM_019925
Red=Cloning site Green=Tags(s)

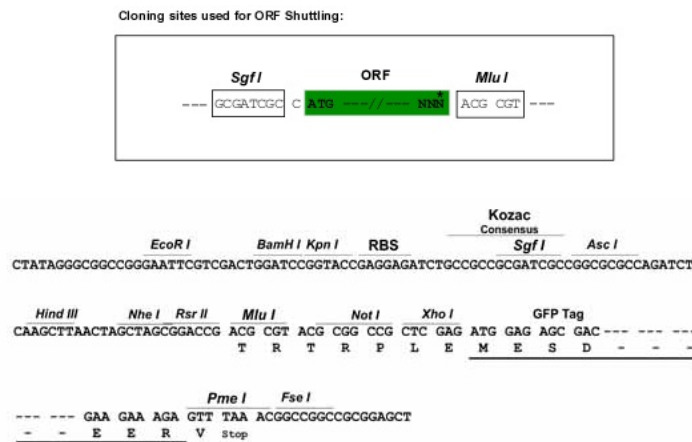
MRSEPTNAAGNTTLGVTSVLQSTSVPSSETCHVSYEESRVVLVVVYSAVCLLGLPANCLTAWLTLLQVLQ
 RNVLAVYLFCLSLCELLYISTVPLWIIYIQNHKWNLGPQACKVTAYIFFCNIYISILLCCISCDRYMA
 VVYALESRGHRHQRTAVTISACVILLVGLVNYPVFDMKVEKSFCEPLRMNSKIAGYHYLRFTFGFAIPL
 GILAFTHQIFRSIKLSDSL SAAQKNKVKRSIAVVTIFLVCFAPYHVLLVKAASF SFYQGDMDAVCAF
 ESRLYTVSMVFLCLSTVNSVADPIIYVLGTDHSRQEVSRHTGKWKWSTKYVTCSKDSEETHLPTLSN
 TYTFPNPAHPG SQPAKLGLLCS PERLPEELC

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3457_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019925

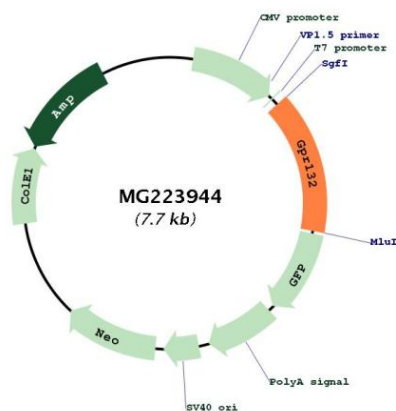
ORF Size: 1146 bp

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:**
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_019925.4](#), [NP_064309.1](#)
- RefSeq Size:** 2439 bp
- RefSeq ORF:** 1149 bp
- Locus ID:** 56696
- UniProt ID:** [Q9Z282](#)
- Cytogenetics:** 12 F1
- Gene Summary:** May be a receptor for oxidized free fatty acids derived from linoleic and arachidonic acids such as 9-hydroxyoctadecadienoic acid (9-HODE). Activates a G alpha protein, most likely G alpha(q). May be involved in apoptosis. Functions at the G2/M checkpoint to delay mitosis. May function as a sensor that monitors the oxidative states and mediates appropriate cellular responses such as secretion of paracrine signals and attenuation of proliferation. May mediate the accumulation of intracellular inositol phosphates at acidic pH through proton-sensing activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223944