

Product datasheet for **MG214620**

Olf683 (NM_147045) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Olf683
Synonyms:	MOR40-1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214620 representing NM_147045
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCAGAAGGCAACACATGGAAGCACAAGCAACACTTCCTCTATCCTGGCCCTGACTTCCTCCTCA
TCTGCTCCCACTACCAGACCTGGCAGCATTGGCTGTCCCTGCCCTCAGCCTCCTCTTCTCCTGGC
CATGGGAGCCAATGCCACCTTCTCATCACCATCAGGATGGAGCCTCTCTGCATGAGCCCATGTACTAC
CTGCTCAGCCTTCTGTCCCTGCTGGACATTGTGCTCTGCCTCACTGTCATACCTAAGGTCTGGCCATCT
TCTGGTTTGACAATAAATCTATTGGCTTCTTCTCCTGCTTCCAGATGTTTGCATGAACAGTTTCT
GACGATGGAGTCTGCACCTTCATGGTCATGGCTTATGACCGCTATGTGGCCATCTGTAAGCCTCTACAG
TACCCATCCATCATCACTGATCAGTTTGTGGTTAGGGCTGCCATCTTTGTAGCAGCCAGAAATGGGATTC
TACTATGCCCATCCCCATACTTTCTCCCACTGAGATATTGTGCAAGAATTATCAGGAAGTGCATCTG
CACTAACATGTCTGTTCCAACTCTCCTGTGATGACATCACTTTTAACTCTACCAGTTTGTATA
GGTTGGACCTGTGGTTCTGACCTCATCCTATTGTTCTATCTTATTCACTTCTGAAGGCTGTGC
TCAGGATCAAAGCAGAGGGAGCTGTGGCCAAAGCCCTGAGCACATGTGGTTCCCACTTCATCCTCATCCT
CTTCTCAGCACAGTCTTGCTGGTGTAGTCATCACTAACCTGGCCAGGGAGAGGATTCCTCCGGACGTC
CCCATCCTGCTCAATATCCTGCATCACCTCATCCCCCAGCTCTGAATCCCATTGTTTATGGGGTAAGAA
CCAGGGAGATCAAGCAGGGAATACGGAACCTTCTTAGGAGGAGTTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214620 representing NM_147045
Red=Cloning site Green=Tags(s)

MIRRQHMEAQSNSSILAPDFLLICFPNYQTWQHWSLPLSLLFLLAMGANATLLITIRMEASLHEPMYY
 LLSLLSLLDIVLCLTVIPKVLAIWFWDNKSIGFSSCFMQMFMNSFLTMESCTFMVMAYDRYVAICKPLQ
 YPSIITDQFVVRAAIFVAARNGILTMPILSSQLRYCARIIRNCICTNMSVSKLSCDDITFNKLYQFVI
 GWTLLGSDLILIVLSYSFILKAVLRIKAEGAVAKALSTCGSHFILILFFSTVLLVLVITNLARERIPDPV
 PILLNILLHLLIPPALNPVYGVRTREIKQGIRNLLRRRL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_147045

ORF Size: 957 bp

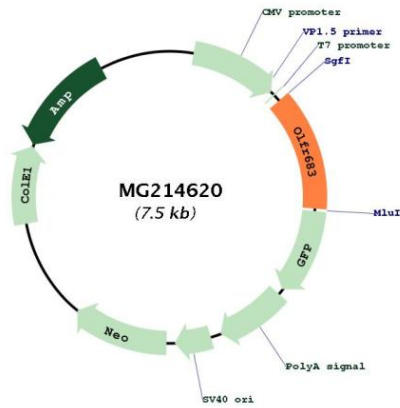
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_147045.1</u> , <u>NP_667256.1</u>
RefSeq Size:	960 bp
RefSeq ORF:	960 bp
Locus ID:	259047
Cytogenetics:	7 E3
Gene Summary:	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MG214620