

Product datasheet for **RG226658**

IFFO2 (NM_001136265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IFFO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG226658 representing NM_001136265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGTAACCTCGCTGCTGTTCGGGAGATGGCCTTGCCCTTCGGCTGCCCGCCGGCGCGCGCGCGGG
GCTGCCCTGGCGGGGGCGGCGCGCGCGGGGACAGGCCGGGTCGCTCGCCGGTGACGGCGCGCTGCG
GGACGACCTGGGCTCCAACATCCACCTCTTGAAGGGGTCAACGTGCGCTTCGCTGCTTCTTGCTAAG
GTGCACGAGCTGGAGCGGCGCAACCGGCTGCTGGAGAAGCAGCTGGAGCAGCAGCAGAGCGAGCGCAGC
GGCGGCTGCGCTACAAGACCTTCTCCGCGAGCAGGCCGTGCAGACCGGGCCGAGTTGCTGCGGCCCCC
GGCGCCGGCGGCGGGGACGGCTCAGCAGTGGCGCGCGCGCGCGCGCCGACGCCAATGCCGTGGCCCTG
GGCGGCTGCCCCGGCGGCGCTGCACCCGACGACATCGCGCGCTCCCGGGACCATCTGAGACT
ACACGCAGGTGCGGCGACGCGGCGGCGCGCTGGAGACCTGCAGGGCCCCGGCGTGTCTGGGTGCA
CCCCGACGGCGTGGGCGTGCAGATCGACACCATCACGCCGAGATCCGCGCGCTCTACAAGTGTCTGGC
AAGGTGAAGCGCAGCGCAGCAGATATAAGCGAGGTGGGAGGAGAGCTGCCTAAGCGCATGAACCTTC
AGACCATGGTGGACACGCTGCAGGAGGCAGCACAGGAGGCTGATGCCATCCAGGAGGAGATGAATGAGAA
GATCGAGCGGCTCAAGGCCGAGCTGGTGGTGTTTAAGGGGCTTATGAGTGACCCCATGACAGACCTGGAC
ACAAAGATCCAAGAAAAGGCCATGAAGGTGGACATGGACATCTGCCGCCGAATCGATATCACGGCCAAGC
TGTCGATGTGCGCAGCAGCGGAACATCAGAAGACGCTTCCAAGATCTCCAGGTGGTCCCCAAAAAGAA
AGCGCTAAGGTGGCTTCGATGATGACATCTCTGAGCAGGACGGGAGGTGAACGGTTCTCGGACGAT
GAGGTGCGCTCCATGAACATCACCGATGAGATGAAGCGCATGTTTAACAGCTGCGGGAGACCTTTGACT
TTGACGACGACTGTGACAGCCTGACGTGGGAAGAGAATGAAGACACGCTGCTGCTCTGGGAGGATTTAC
CAACTGCAATCCGACCATGCACCTGCAGGGCGAGCAAGAGGAAAACTTGGGCAACTTGATCCATGAGACC
GAATCCTTCTTCAAGCAGGAGACAAGGAGTACCAAGGAAACGATAGGTGAGATCGAGCTCGAGCTGGCCA
CAGCCAAAAGTGACATGAACCGACACCTGCACGAGTACATGGAGATGTGACGATGAAGCGAGGCCTGGA
CGTGACAGATGGAGACCTGCCGCGGCTCATAAAGGCTCCGAGACAGGAATTCACCGTCCCCAGCTCC
GTGGCCAGACGCACTCAGGAAGTACAGATGAGATCCAGGATGAGTTCGAGCGCAGGCGGATGTGGAGC
CTAGTGGTCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226658 representing NM_001136265
Red=Cloning site Green=Tags(s)

MVNSLLFGEMALAFGCPPGGGGGGCGGGGGGGGAGPSPVTAALRDDLSNIHLLKGLNVRFCFLAK
 VHELERRNRLLEKQLEQQQSERERRLYKTF SREQAVQTGPPELLRPPAPGGGHGLSSGAAAGANANAVAL
 GGLPPGGGSHPGHYRLPGTIWSYQTQVRRTGGGGVETVQGPVSWVHPDGVGVQIDITPEIRALYNVLA
 KVKRERDEYKRRWEEELAKRMLQTMVDTLQEAQAQADAIQEEMNEKIERLKAEVVFKGLMSDPMTDLD
 TKIQEKAMKVMDICRRIDITAKLCDVAQQRNSEDVSKIFQVVPKKKERKVASDDDISEQDGEVNRFSDD
 EVGSMNITDEMKRMFNQLRETFDQDDCDL TWEEENEDTLLEWEDFTNCNPTIDLQGEQEENLGNLIHET
 ESFFKTRDKEYQETIQEIELELATAKSDMNRHLHEYMEMCSMKRGLDVQMTCRRLIKGSADRNPSPPSS
 VASDSSGSTDETODEFEREADPEVMVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136265

ORF Size: 1551 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:

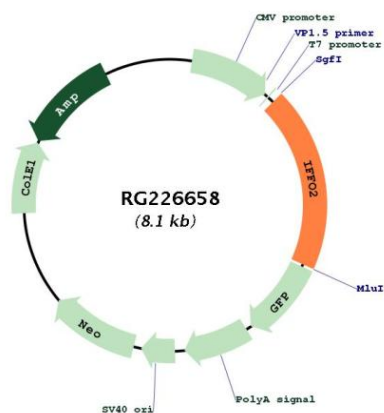
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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: [NM_001136265.2](#)

RefSeq Size: 5835 bp

RefSeq ORF: 1554 bp
Locus ID: 126917
UniProt ID: [Q5TF58](#)
Cytogenetics: 1p36.13

Product images:

Circular map for RG226658