

Product datasheet for **RG210308**

PI 3 Kinase regulatory subunit 4 (PIK3R4) (NM_014602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI 3 Kinase regulatory subunit 4 (PIK3R4) (NM_014602) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PI 3 Kinase regulatory subunit 4
Synonyms:	p150; VPS15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210308 representing NM_014602 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAATCAGCTTGCTGGCATTGCTCCCTCCCAGATCCTTTCTGTAGAGAGTTATTTTCAGATATTC
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

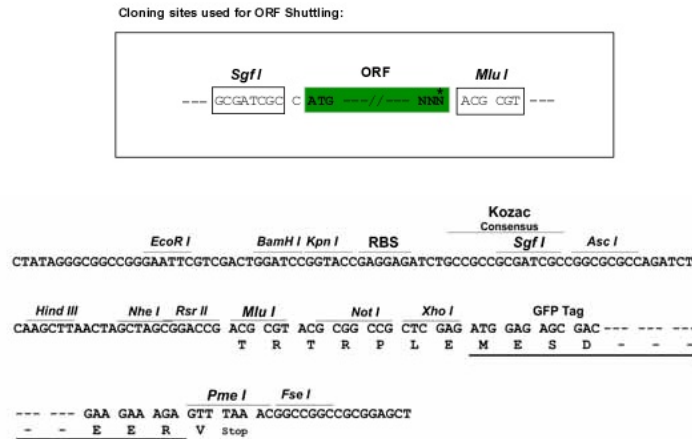
Protein Sequence: >RG210308 representing NM_014602
 Red=Cloning site Green=Tags(s)

MGNQLAGIAPSQILSVESYFSDIHDFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDPTLPLTSYKQE
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 KSGVVRHGDIKTENVMVTSWNWVLLTDFASFKPTYLPEDNPADFNFFDTSRRRTCYIAPERFVDGGMFAT
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 IEDHSIRELVTQMIHREPKRLEAEDYLKQQRGNAPFEIFYTFLQPYMAQFAKETFLSADERILVIRKDL
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 LKLLSQGMTEEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLAAALGITGRQVDLVKTKQEP
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 PKGLLV AHLHEHKS AVNRIRVSD EHS L F A T C S N D G T V K I W N S Q K M E G K T T T R S I L T Y S R I G G R V K T L T F
 C Q G S H Y L A I A S D N G A V Q L L G I E A S K L P K S P K I H P L Q S R I L D Q K E D G C V D M H H F N S G A Q S V L A Y A T V N G S
 L V G W D L R S S S N A W T L K H D L K S G L I T S F A V D I H Q C W L C I G T S S G T M A C W D M R F Q L P I S S H C H P S R A R I R R L
 S M H P L Y Q S W V I A A V Q G N N E V S M W D M E T G D R R F T L W A S S A P P L S E L Q P S P H S V H G I Y C S P A D G N P I L L T A G
 S D M K I R F W D L A Y P E R S Y V V A G S T S S P S V S Y Y R K I I E G T E V V Q E I Q N K Q K V G P S D D T P R R G P E S L P V G H H D
 I I T D V A T F Q T T Q G F I V T A S R D G I V K V W K

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

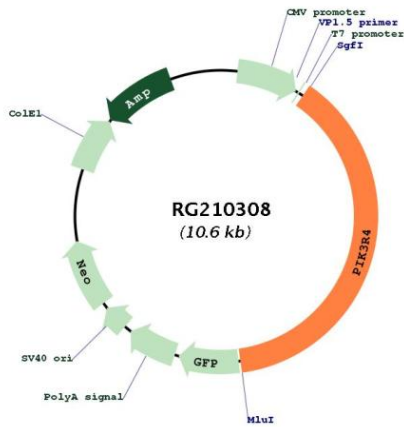


ACCN: NM_014602

ORF Size: 4074 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.
RefSeq:	NM_014602.3
RefSeq Size:	5060 bp
RefSeq ORF:	4077 bp
Locus ID:	30849
UniProt ID:	Q99570
Cytogenetics:	3q22.1
Domains:	pkinase, WD40, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Regulation of autophagy
Gene Summary:	Regulatory subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210308