

Product datasheet for **RG201456**

ILKAP (NM_030768) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ILKAP (NM_030768) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ILKAP |
| Synonyms: | ILKAP2; ILKAP3; PP2C-DELTA; PP2CD; PPM1O |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG201456 representing NM_030768 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTCTTCGGGACCTGCCGGAGCCCGAGCGCTCGCCGCGCCCGCTGCCGGAAAGAAGCTCAGA
AAGGACCCTGCTCTTTGATGACCTCCCTCCGGCCAGCAGTACTGACTCAGGATCAGGGGACCTTTGCT
TTTTGATGATCTCCACCCGCTAGCAGTGGCGATTAGGTTCTCTTGCCACATCAATATCCAGATGGTA
AAGACTGAAGGAAAGGAGCAAAGAGAAAAACCTCCGAGGAAGAGAAGAATGCCAGTGAAGAGCTTGTGG
AAAAGAAAGTTTGTAAAGCCTCTTCGGTATCTTTGGTCTGAAGGCTATGTGGCTGAGCGGAAGGGTGA
GAGGGAGGAGATGCAGGATGCCACGTCATCCTGAACGACATCACCGAGGAGTGTAGGCCCCATCGTCC
CTCATTACTCGGGTTTCATATTTTGTGTTTGTGATGGACATGGAGGAATTCGAGCCTCAAATTTGCTG
CACAGAATTTGCATCAAACTTAATCAGAAAAATTCCTAAAGGAGATGTAATCAGTGTAGAGAAAACCGT
GAAGAGATGCCTTTTGGACACTTCAAGCATACTGATGAAGAGTTCCTTAAACAAGCTTCCAGCCAGAAG
CCTGCCTGGAAAGATGGGTCCACTGCCACGTGTGTTCTGGCTGTAGACAACATCTTTATATTGCCAAC
TCGGAGATAGTCGGGCAATCTTGTGTCGTTATAATGAGGAGAGTCAAAAACATGCAGCCTTAAGCCTCAG
CAAAGAGCATAATCCAACCTCAGTATGAAGAGCGGATGAGGATACAGAAGGCTGGAGGAAACGTCAGGGAT
GGCGTGTTTTGGCGTGTAGAGGTGTCACGCTCCATTGGGACGGGCAGTACAAGCCTGCGGTGTCA
CCTCTGTGCCCGACATCAGACGCTGCCAGCTGACCCCAATGACAGGTTCAATTTGTTGGCTGTGATGG
GCTCTTCAAGGTCTTTACCCAGAAAGACCGTGAACCTCATCTTGTCTGCTCGAGGATGAAAAGATC
CAGACCCGGGAAGGGAAGTCCGCAGCCGACGCCGCTACGAAGCAGCCTGCAACAGGCTGGCCAACAAG
CGGTGCAGCGGGCTCGGCCACAACGTCACTGTGATGGTGGTGCAGGATAGGGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201456 representing NM_030768
 Red=Cloning site Green=Tags(s)

MDLFGDLPEPERSPRPAAGKEAQKGPLLFDDLPPASSTDSGSGGPLLFDDLPPASSGDSGLATSISQMV
 KTEGKGAKRKTSEEEKNGSEELVEKKVKASSVIFGLKGYVAERKGEREEMQDAHVILNDITEECRPPSS
 LITRVSYFAVFDGHGGIRASKFAAQNHLQNLIRKFPKGDVISVEKTVKRCLLDTFKHTDEEFLKQASSQK
 PAWKDGSTATCVLAVDNILYIANLGDRAILCRYNESQKHAALSLSKEHNPTQYEERMRIQKAGGNVRD
 GRVLGVLEYSRSIGDQYKRCGVTSVPDIRRCQLTPNDRFILLACDGLFKVFTPEEAVNFILSCLEDEKI
 QTREGKSAADARYEAACNRLANKAVQRGSADNVTVMVVRIGH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030768

ORF Size: 1176 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.

RefSeq: [NM_030768.3](#)

RefSeq Size: 1480 bp

RefSeq ORF: 1179 bp

Locus ID: 80895

UniProt ID: [Q9H0C8](#)

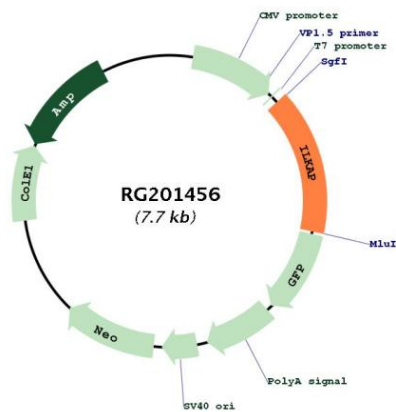
Cytogenetics: 2q37.3

Domains: PP2C

Protein Families: Druggable Genome, Phosphatase

Gene Summary: The protein encoded by this gene is a protein serine/threonine phosphatase of the PP2C family. This protein can interact with integrin-linked kinase (ILK/ILK1), a regulator of integrin mediated signaling, and regulate the kinase activity of ILK. Through the interaction with ILK, this protein may selectively affect the signaling process of ILK-mediated glycogen synthase kinase 3 beta (GSK3beta), and thus participate in Wnt signaling pathway. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201456