

Product datasheet for **RG210029**

IQCE (NM_152558) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | IQCE (NM_152558) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | IQCE |
| Synonyms: | 1700028P05Rik; PAPA7 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG210029 representing NM_152558
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTGGGCACCGGGGAGCCGGCCTTGGACACGGGAGATGACAGTCTGTCTGCAGTCACCTTTGACT
 CTGATGTGGAGACGAAAGCAAAAAGGAAAGCTTTCCACAAACCTCCACCCACATCGCAAAGTCACCTTA
 TCTCTCTAAGCCGAGAAAAGTGGCCTCCTGGAGGTCCCTCAGGACGGCAGGGAGCATGCCTCTGGGCGGC
 CGAGCGTCCCTGACCCCGCAGAAGCTGTGGCTGGGAACCGCAAAGCCAGGAAGTCTGACCCAGGCCCTGA
 ACTCACCCCTCACCTGGGAGCATGCGTGGACTGGCGTCCCGGGCGGCACTCCTGACTGTCTGACAGACAC
 CTTCAGAGTGAAGAGGCCACATCTCAGGCGCTCTGCCAGCAACGGTCATGTCCCTGGGACTCCTGTCTAC
 AGAGAAAAAGAAGATATGTATGACGAGATTATTGAGTTAAAGAAGTCATTGCACGTGCAGAAGAGCGACG
 TGGACCTGATGAGAACGAAGCTCCGGCGCTGGAGGAGGAAAACAGCAGGAAGGACCGGCAGATAGAGCA
 GCTCCTGGATCCAGCCGCGGCAGGATTTTGTTCGGACTCTGGCAGAGAAAAGGCCGATGCCAGTTGG
 GTCAATTAACGGGCTGAAGCAGAGGATCCTGAAGCTGGAACAGCAGTGCAAGGAGAAGGACGGCACCATCA
 GGAAACTCCAGACCGATATGAAGACTACCAACCTGGAAGAGATGCGGATCGCCATGGAGACATACTACGA
 GGAGGTGCATCGTCTCCAGACCTCTTGGCAAGTTCTGAAACCACCGAAAGAAGCCCTGGGGGAGAAG
 AAGACGGGCGCCAAAAGGCAGAAGAAGATGGGCAGTGCCTCCTGAGCTTGTCCCGGAGTGTCCAGGAGC
 TCACGGAAGAGAACCAGAGCCTGAAGGAGGACCTGGACCGCGTGTGAGCACCTCCCAACCATCTCCAA
 GACACAGGGTTATGTGGAGTGGAGCAAGCCCGGCTGTGAGGCGCATTGTGGAGCTGGAGAAGAACTA
 AGTGTGATGGAGAGCTCAAAATCACACGCCGACAGCCAGTCAGATCACACCCGCCAGCCTGCCTTGAT
 CCAGCTCTGCGCTGCACAGACAGCCACGAGGGGACCGCAACAAGGACCACGAGCGTCTCCGAGGGGCTGT
 GAGAGACCTGAAGGAAGAGCGGACCGCGCTGCAGGAGCAGCTACTGCAGAGAGATTTGGAGGTGAAGCAG
 CTCCTGCAGGCGAAGGCCGACCTGGAGAAGGAGCTGGAGTGCAGGAGGGAGGGGAGGAGGAGAGAG
 AGCGAGAGGAGGTTTTGAGAGAGGAGATTCAGACACTTACCAGCAAGCTCCAAGAATTGCAAGAAATGAA
 GAAAGAAGAGAAAGAGGATTGCCCGGAAGTTCTCATAAGGCCCAAGAGCTCCAGCTCCCACTCCAGC
 AGCAGGCACTGCGAGCAAGACTGGCCGCCGATTCCAGCGAGGAGGGGCTCCCGCGGCCCGCTCCCCCT
 GCTCTGATGGGAGAAGAGACGCCGCGCCAGAGTCTGCAGGCCAGTGGAAAGTGTACAAGCACAAGAA
 AAAAAAGGCTGTCTGGATGAGGCGCTGTGGTCTTCAGGCAGCTTTCAGGGGACATCTCACGCGGACA
 AAGCTCTTAGCAAGCAAAGCACATGGCTCAGAGCCACCCAGCGTCCAGGCTCTCAGACCAGAGCTCTC
 CTGTGCCCGCGTTCCGAGCCCATCGCCAGGCCACGGGACGCCCTGTGCAGGAGGAGGCCATCGTCAT
 CATCCAGTCCGCTCTGCGGGCACACCTGGCCCGGGCCAGGCACAGTGCTACCGGTAAAAGAACCACCACC
 GCAGCTTCTACCAGGAGGAGATCGGCTTCCAGCCACACAGGGGACGCCTCCTCCCAACCTTCTCGCAG
 CTCTTCTGACCCCTCTCCCTCAGGGCCACAGGCTTGGCACCTTACCTGGGGATGACGTCAACTCCGA
 TGATTCGACGATATTGTATTGCACCGTCTCTGCCACGAAGAACTTTCCAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210029 representing NM_152558
 Red=Cloning site Green=Tags(s)

MFLGTGEPALDTGDDSLSAVTFDSVETKAKRKAFFHKPPPTSPKSPYLSKPRKVASWRSLRTAGSMPLGG
 RASLTPQKLWLTAKPGSLTQALNSPLTWEHAWTGVPGGTPDCLTDTFRVKRPHLRRSASNGHVPV
 REKEDMYDEIIELKKSLSLVQKSDVDLMRTKLRRLEEENSRKDRQIEQLLDPSRGTDVVRTLAEKRPDASW
 VINGLKQRILKLEQQCKEKDGTIRKLQTDKMTTNLEEMRIAMETYYEEVHRLQTLASSETTGKKPLGK
 KTGAKRQKKMGSALLSLRSVQELTEENQSLKEDLDRVLSTPTISKTQGYVEWSKPRLLRRIVELEKLL
 SVMESSKSHAAEPVRSHPPACLASSALHRQPRGDRNKDHERLRGAVRDLKEERTALQEQLLQRDLVQK
 LLQAKADLEKELEECAREGEEERREREVLEEEIQTLTSLKQELQEMKKEEKEDCPEVPHKAQELPAPTPS
 SRHCEQDWPDSSEGLPRRSPCSDGRRDAAARVLQAQWKVYKHKKKAVLDEAAVVLQAQFRGHLTRT
 KLLASKAHGSEPPSPVGLSDQSSPVRVPSPIAQATGSPVQEEAIVIIQSALRAHLARARHSATGKRTTT
 AASTRRRSASATHGDASSPFLAALPDPSPSGPQALAPLPGDDVNSDDSDDIVIAPSLPTKNFPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152558

ORF Size: 2085 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_152558.2](#), [NP_689771.2](#)

RefSeq Size: 3032 bp

RefSeq ORF: 2088 bp

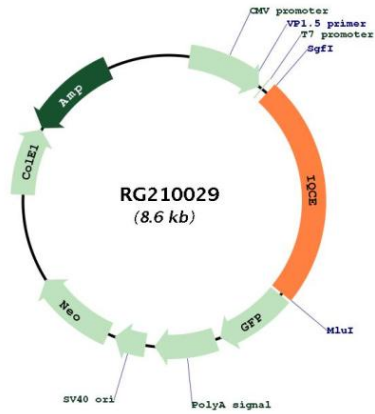
Locus ID: 23288

UniProt ID: [Q6IPM2](#)

Cytogenetics: 7p22.3

Gene Summary: Component of the EvC complex that positively regulates ciliary Hedgehog (Hh) signaling (By similarity). Required for proper limb morphogenesis (PubMed:28488682).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210029