

## Product datasheet for **RG218615**

### **IQCE (NM\_001100390) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IQCE (NM_001100390) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IQCE
Synonyms:	1700028P05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218615 representing NM\_001100390  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTGGGCACCGGGGAGCCGGCCTTGGACACGAAAGCAAAAAGGAAAGCTTCCACAAACCTCCAC  
 CCACATCGCCAAAGTACCTTATCTCTCTAAGCCGAGAAAAGTGGCCTCCTGGAGGTCCCTCAGGACGGC  
 AGGGAGCATGCCTCTGGGCGGCCGAGCGTCCCTGACCCCGCAGAAGCTGTGGCTGGGAACCGCAAAGCCA  
 GGAAGTCTGACCCAGGCCTGAACTCACCCCTCACCTGGGAGCATGCGTGGACTGGCGTCCCGGCGGCA  
 CTCCTGACTGTCTGACAGACACCTTACAGTGAAGAGGCCACATCTCAGGCGCTCTGCCAGCAACGGTCA  
 TGTCCCTGGGACTCCTGTCTACAGAGAAAAGAAGATATGTATGACGAGATTATTGAGTTAAGAAGTCA  
 TTGCACGTGCAGAAGAGCGACGTGGACCTGATGAGAACGAAGCTCCGGCGCCTGGAGGAGAAAACAGCA  
 GGAAGGACCGGCAGATAGAGCAGCTCCTGGATCCAGCCGCGGCACGGATTTTGTTCGGACTCTGGCAGA  
 GAAAAGGCCCGATGCCAGTTGGGTCAATTAACGGGCTGAAGCAGAGGATCCTGAAGCTGGAACAGCAGTGC  
 AAGGAGAAGGACGGCACCATCAGCAAATCCAGACCGATATGAAGACTACCAACCTGGAAGAGATGCCGA  
 TCGCCATGGAGACATACTACGAGGAGGTGCATCGTCTCCAGACCTCTTGGAAGTTCTGAAACCCCGG  
 AAAGAAGCCCCTGGGGGAGAAGAAGACGGGCGCCAAAAGGCAGAAGAAGATGGGCAGTGCCTCCTGAGC  
 TTGTCCCGGAGTGTCCAGGAGCTCACGGAAGAGAACAGAGCCTGAAGGAGGACCTGGACCCGCTGCTGA  
 GCACCTCCCCAACCATCTCCAAGACACAGGGTTATGTGGAGTGGAGCAAGCCCGGCTGTGAGGCGCAT  
 TGTGGAGCTGGAGAAGAACTAAGTGTGATGGAGAGCTCAAAATCACACGCCGACAGCCAGTGCAGATCA  
 CACCCGCCAGCCTGCCTTGCATCCAGCTCTGCGCTGCACAGACAGCCACGAGGGGACCGCAACAAGGACC  
 ACGAGCGTCTCCGAGGGGCTGTGAGAGACCTGAAGGAAGAGCGGACCGCGCTGCAGGAGCAGCTGTGCA  
 GAGAGATTTGGAGGTGAAGCAGCTCCTGCAGCGAAGGCCGACCTGGAGAAGGAGCTGGAGTGCAGGAGG  
 GAGGGCGAGGAGGAGGAGAGAGCGAGAGGAGTTTTGAGAGAGGAGATTACAGACACTTACCAGCAAGC  
 TCCAAGAATTGCAAGAAATGAAGAAAGAAGAGAAAGAGGATTGCCCGGAAGTTTCTCATAAGGCCCAAGA  
 GCTCCAGCTCCCACTCCAGCAGCAGGCACTGCGAGCAAGACTGGCCGCGGATTCCAGCGAGGAGGGG  
 CTCCCGCGGCCCGCTCCCTGCTCTGATGGGAGAAGAGACGCCGCGGCCAGAGTCTGCAGGCCCAGT  
 GGAAGGTGTACAAGCACAAGAAAAAAGGCTGTTCTGGATGAGGCGGCTGTGGTCTTACGGCAGCTTT  
 CAGGGGACATCTACGCGGACAAAGCTTTAGCAAGCAAAGCACATGGCTCAGAGCCACCCAGCGTGCCA  
 GGCTCCAGACCAGAGCTCTCCTGTGCCCGCGTTCCGAGCCCATCGCCAGGCCACGGGCAGCCCTG  
 TGCAGGAGGAGGCCATCGTCATCATCCAGTCCGCTCTGCGGGCACACCTGGCCCGGGCCAGGCACAGTGC  
 TACCGGTAAAAGAACCACCACCGCAGCTTCTACCAGGAGGAGATCGGCTTACGCCACACAGGGGACGCC  
 TCCTCCCCACCTTCTCGCAGCTTCTCTGACCCCTCTCCCTCAGGGCCACAGGCTTGGCACCTCTAC  
 CTGGGGATGACGTCAACTCCGATGATTCGACGATATTGTATTGACCCGTCTCTGCCACGAAGAATT  
 TCCAGTT

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG218615 representing NM\_001100390  
 Red=Cloning site Green=Tags(s)

```
MFLGTGEPALDTKAKRKAFFHKPPPTSPKSPYLSKPRKVASWRSRLRTAGSMPLGGRASLTPQKLWLTAKP
GSLTQALNSPLTWEHAWTGVPGGTPDCLTDTFRVKRPHLRRSASNGHVPGTPVYREKEDMYDEIIELKKS
LHVQKSDVDLMRTKLRRLEEENSRKDRQIEQLLDPSRGTDFVRTLAEKRPDASWVINGLKQRILKLEQQC
KEKDGITISKLQTDKMTTNLEEMRIAMETYYEEVHRLQTLASSETTGKKPLGEKKTGAKRQKKMGSALLS
LSRSVQELTEENQSLKEDLDRVLSTSPITISKTQGYVEWSKPRLLRRIVELEKKSVMESSKSHAAEPVRS
HPPACLASSSALHRQPRGDRNKDHERLRGAVRDLKEERTALQEQLLQRDLEVKQLLQAKADLEKELECAR
EGEEERREREVLR E E I Q T L T S K L Q E L Q E M K K E E K E D C P E V P H K A Q E L P A P T P S S R H C E Q D W P P D S S E E G
L P R P R S P C S D G R R D A A A R V L Q A Q W K V Y K H K K K A V L D E A A V V L Q A A F R G H L T R T K L L A S K A H G S E P P S V P
G L P D Q S S P V P R V P S P I A Q A T G S P V Q E E A I V I I Q S A L R A H L A R A R H S A T G K R T T T A A S T R R R S A S A T H G D A
S S P P F L A A L P D P S P S G P Q A L A P L P G D D V N S D D S D D I V I A P S L P T K N F V
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001100390

**ORF Size:** 2037 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\\_001100390.1](#), [NP\\_001093860.1](#)

**RefSeq Size:** 6813 bp

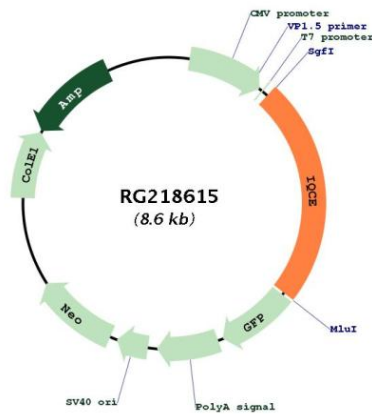
**RefSeq ORF:** 2039 bp

**Locus ID:** 23288

**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 RG218615