

## Product datasheet for **SC337197**

### **IQCE (NM\_001287500) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IQCE (NM_001287500) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQCE
Synonyms:	1700028P05Rik; PAPA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001287500, the custom clone sequence may differ by one or more nucleotides

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ATGTTCTGGGCACCGGGGAGCCGGCTTGGACACGAAAGCAAAAAGGAAAGCTTCCACAAACCTCCAC
CCACATCGCCAAAGTCACCTTATCTCTCTAAGCCGAGAAAAAGTGGCTCCTGGAGGTCCTCAGGACGGC
AGGGAGCATGCCTCTGGGCGGCCGAGCGTCCCTGACCCCGAGAAGCTGTGGCTGGGAACCGCAAAGCCA
GGAAGTCTGACCCAGGCCCTGAACTCACCCCTCACCTGGGAGCATGCGTGGACTGGCGTCCCGGGCGCA
CTCCTGACTGTCTGACAGACACCTTCAGAGTGAAGAGGCCACATCTCAGGCGCTCTGCCAGCAACGGTCA
TGTCCCTGGGACTCCTGTCTACAGAGAAAAAGAAGATATGTATGACGAGATTATTGAGTTAAAGAAGTCA
TTGCACGTGCAGAAGAGCGACGTGGACCTGATGAGAACGAAGCTCCGGCGCCTGGAGGAGGAAAACAGCA
GGAAGGACCGGCAGATAGAGCAGCTCCTGGATCCAGCCGCGGCACGGATTTTGTTCGGACTCTGCCAGA
GAAAAGGCCCGATGCCAGTTGGGTCAATACGGGCTGAAGCAGAGGATCCTGAAGCTGGAACAGCAGTGC
AAGGAGAAGGACGGCACCATCAGCAAATCCAGACCGATATGAAGACTACCAACCTGGAAGAGATGCGGA
TCGCCATGGAGACATACTACGAGGAGGTGCATCGTCTCCAGACCTCTTGCAAGTTCTGAAACCACGGG
AAAGAAGCCCCTGGGGGAGAAGAAGACGGGCGCCAAAAGGCAGAAGAAGATGGGCAGTGCCTCCTGAGC
TTGTCCCGGAGTGTCCAGGAGCTCACGGAAGAGAACAGAGCCTGAAGGAGGACCTGGACCGCGTGTGA
GCACCTCCCAACCATCTCCAAGACACAGGGTTATGTGGAGTGGAGCAAGCCCGGCTGTGAGGCGCAT
TGTGGAGCTGGAGAAGAACTAAGTGTGATGGAGAGCTCAAAATCACACGCCGACAGCCAGTCAGATCA
CACCCGCCAGCCTGCCTTGATCCAGCTCTGCGTGCACAGACAGCCACGAGGGGACCGCAACAAGGACC
ACGAGCGTCTCCGAGGGGCTGTGAGAGACCTGAAGGAAGAGCGGACCGCGCTGCAGGAGCAGCTGCTGCA
GAGAGATTTGGAGGTGAGCAGCTCCTGCAGGCGAAGGCCGACCTGGAGAAGGAGCTGGAGTCCGCGAGG
GAGGGCGAGGAGGAGAGAGAGAGCGAGAGGAGGTTTTGAGAGAGGAGATTACAGACTTACCAGCAAGC
TCCAAGAATTGCAAGAAATGAAGAAAGAAGAGAAAGAGGATTGCCCGAAGTTCCCTATAAGGCCCAAGA
GCTCCCAGCTCCCCTCCAGCAGCAGGCACTGCGAGCAAGACTGGCCGCGGATTCCAGCGAGGAGGGG
CTCCCGCGGCCCGCTCCCCTGCTCTGATGGGAGAAGAGACGCCGCGGCCAGAGTCTGCAGGCCCAGT
GGAAGGTGTACAAGCACAAGAAAAAAGGCTGTTCTGGATGAGGCGGCTGTGGTCTCAGGCAGCTTT
CAGGGGACATCTCAGCGGACAAAGCTCTTAGCAAGCAAAAGCACATGGCTCAGAGCCACCCAGCGTGCCA
GGCCTCCAGACCAGAGCTCTCCTGTGCCCGCGTTCCGAGCCCCATCGCCAGGCCACGGGCGAGCCCTG
TGCAGGAGGAGGCATCGTCATCATCCAGTCCGCTCTGCGGGCACACCTGGCCCGGGCCAGGCACAGTGC
TACCGGTAAAAGAACCACCACCGCAGCTTCTACCAGGAGGAGATCGGCTTACGCCACACAGGGGACGCC
TCCTCCCACCTTCTCGCAGCTCTTCTGGTAATTTCAATTCATTTGGATTCTGGCACCAGGGCAGCTG
GTCTGCTGAGGTCTCAGCCAAAGAGTGGCCACCTCCAGGAAGCCCGGGCTGTGTCCGGACGGAAGGGAGG
AGTGTCCCATCTGGAGCTGCCTCTGAACTAA
    
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001287500
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001287500.1](#), [NP\\_001274429.1](#)

**RefSeq Size:** 2466 bp

**RefSeq ORF:** 2061 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]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region, and contains an alternate 3' terminal exon and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4) has a distinct C-terminus and is shorter than isoform 1. CCDS Note: The coding region was updated to represent an alternative splicing pattern that is more supported by the available transcript and protein data.