

Product datasheet for **RG206698**

IQCK (NM_153208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IQCK
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206698 representing NM_153208
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGCACCGCGCAAATCCCCAGCCACATAGTGCCTCAAGCCAGCTGCTCTACAGACTCGTCGT
TCACCCGGACGCCGGTGCCACCGTGTCTCTCGCTCCCGAGCTGCCTGTCTCGTCGTGGCAGGTCAC
CGAGCCGTCAGCAAGAATCTGTGGGAGCAGATCTGCAAGGAGTATGAAGCTGAGCAGCCTCCCTTTCCA
GAAGGATATAAAGTCAAACAGGAGCCTGTGATTACGGTTGCGCCAGTAGAGGAAATGCTTTTTTCATGGCT
TCAGTGCAGAGCACTATTTCCGGTTTCCCATTTACCATGATCTCACGTACACCTGTCTCAAGATAA
ATCGGAAACAATCAACCAAAAACATGTTCTCCAAAGAATATTTGGAACTTTTCATCTTCTCTGTTCTG
CTTCCCGGAATGGCTAGCTGTCTTACCAAGCGAAGAAAGAAAAATGTTTTGAGAGGAAAGAACCAAAAT
TCATTGCCTGTGATTTTCTGACTGAGTGGTTATACAACCAAAATCCAAAGAGGGCAGGGGAGCCATTAC
AGAATTTTTCTCCATTCCATTTGTGGAGGAGCGGCTAAAGCAACACCCACGGCCGCAATCCCACTCTCG
CTCCTGCTGACAGAAGAGGAAGCAGCCCTCTACATTCAATCCTTCTGGAGAGCCTGTGTGGTTGCTGTG
ATCCTGAGATTCAAGAACTGCGTCAGTGGCAGAAGAACTTCGCGAGGCCAAGCACATTACCAGCAAGT
CAAAATTTTCTGGCCAAGCAAGAACAAAAGTAAATGCAAAATGGAGGACGATGCAGTACCTGCAGCC
AAGATGAAATTCCATCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG206698 representing NM_153208
Red=Cloning site Green=Tags(s)

MAAPRQIPSHIVRLKPSCSTDSSFTRTPVPTVSLASRELVSQVTEPSSKNLWEQICKEYEAEQPPFP
EGYKVKQEPVITVAPVEEMLFHGFSAEHYFPVSHFTMISRTPCPQDKSETINPKTCSPKEYLETIFPVL
LPGMASLLHQAKKEKCFERKRTKFIACDFLTEWLYNQNPKRAGEPTEFFSIPFVEERLKQHPRPPIPLS
LLL TEEEAALYIQSFWRACVVRCDPEIQELRQWQKKLREAKHIHQVKIFWAKQE QKVKCKMEDDAVPAA
KMKIPSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_153208

ORF Size: 861 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153208.2](#), [NP_694940.1](#)

RefSeq Size: 2603 bp

RefSeq ORF: 864 bp

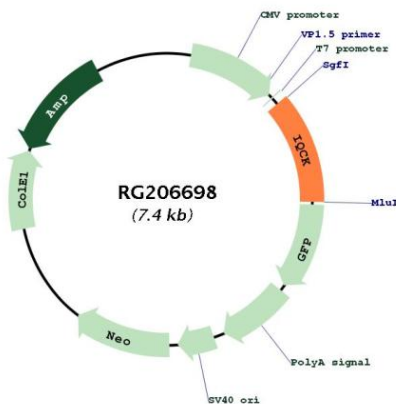
Locus ID: 124152

UniProt ID: [Q8N0W5](#)

Cytogenetics: 16p12.3

Gene Summary: This gene belongs to the IQ motif-containing family of proteins. The IQ motif serves as a binding site for different EF-hand proteins such as calmodulin. This gene was identified as a potential candidate gene for obsessive-compulsive disorder in a genome-wide association study. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2015]

Product images:



Circular map for RG206698