

## Product datasheet for **RG216646**

### **IQCN (NM\_025249) Human Tagged ORF Clone**

#### Product data:

|                           |                         |
|---------------------------|-------------------------|
| <b>Product Type:</b>      | Expression Plasmids     |
| <b>Tag:</b>               | TurboGFP                |
| <b>Symbol:</b>            | IQCN                    |
| <b>Synonyms:</b>          | KIAA1683                |
| <b>Mammalian Cell</b>     | Neomycin                |
| <b>Selection:</b>         |                         |
| <b>Vector:</b>            | pCMV6-AC-GFP (PS100010) |
| <b>E. coli Selection:</b> | Ampicillin (100 ug/mL)  |

**ORF Nucleotide Sequence:** >RG216646 representing NM\_025249  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACCCCTCAAGGCAGAGCTGACCTGTCCGGTAATCAAGGCAATGCAGCCGGCCGCCTAGCTACAGTTC  
ACGAGCCAGTTGTACCCAGTGGGCGGTGCATCCTCCAGCCCCGCTCACCCAGTCTCCTGGACAAAAT  
GGAGAAAGCGCCTCCACAGCCCCAGCAGAGGGCCTCAAGTCCAAGGAGCATCTCCGCAACAGCCTGCC  
GAAGGCAAGACGGCGTCCCGCCGCTCCACGCTCCGGGCTGTGGTCGAGAGCCAGGCCTTCAAGAACA  
TCCTGGTAGACGATGGACATGATGCACGCCGTGCAGCCACGCTCATCCAAGCCAACTGGAGGGGCTA  
TTGGCTCCGGCAGAAGCTGATTTCCAGATGATGGCGGCCAAGGCCATCCAGGAGGCCTGGCGGCCCTTC  
AACAAGAGACACATCCTTCACTCCAGCAAGTCGTTGGTAAAGAAAACGAGGGCGGAGGAGGGGGACATAC  
CTTATCAGCCCCACAGCAGGTGCGCTTCCAGCATCCGGAAGAGAACCGCCTTCTGTCCCCGCCATCAT  
GGTGAACAAGGAGACCCAGTTCCTTCTGTGACAATCTGGTCCTTGCAGACCCAGTCTGCCCCCTC  
CTGCAGCCCCCAGCAGCTCAGGGTACCCACAGCCCTGTGTGCAGGGTCCTCATGCTGCCAGAGTCCGGG  
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CCAGCCATGCCTGCTGACCAGAACCATCAGAAGCACCTGCCTCGTCCACATAGAGGGTGACTCAGTGAAG  
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AGGCAGTTACGAGACCATCCAGAGCCAAACCCAGGGCCCTGTGAAAGCAGAGACCCCAAGGCCCTT  
CCAGATATGTCCAGGGCCATGATACCAAGACTCTACTCCAGACATATCCAGTGGTCTCCGTGACCCTG  
CCACAGACATATCCAGCGTCCACGATGACCACACCCACCAAGACTAGCCAGTTCCTCAAGTAACAA  
TAATCAAGACCCAGCCAGATGTATCCGGGGCCACAGTGACCAAACTGCACCTCACACATGCCCAT  
GCCCAATGACCAAGATCCAGGTACACCCACAGCCTCCAGAAGTGGCACCCACGGCAGACATGCCCT  
GCGACCATCACGGCAAAGAACCGACCTCAGGTTTCCCTTCTGGCTTCCATCATGAAGAGCCTGCCCCAGG  
TATGCCCGGGGCTGCGATGGCAAAGACCCACCCAGATGCACCCGGTCACCAACCCAGCCAAAAACCC  
ATTGCAACATGTCTGTGAGCCACAATGTCCAAGACTTCATCCAGAGGAGCCAGTTGGGGTGACCAAG  
CCCTCACCCAGACCCGCTGCCAGCATGATAACCAAGACCCAGCCAGTTACGCTCGGTGGCCACCA



TCCTCAAGACTCTGTGTCTGGCCTCTCCAACAGTGGCAAATGTCAAGGCTCCACCCCAAGTGGCGGTAGC  
AGCCGGAACCTCCCAACCTCAGGCTCCATCCATGAGAACCACCCCAAGGCCAAGGCCACCGTGAATGTG  
AAGCAGGCTGCAAAGGTGGTGAAGCCTCATCCCCCTCTATTGGCTGAGGGGAAGATCAGGTGCCTGG  
CTCAACCCACATCCGGGAACCTGGGCTCCCAAGGGTGCAGCTGAGCTTCTTTGGAAGCCGAGAAAAATCAA  
GACTGGCACCCAGAAACAGGCCAAAACAGACATGGCATTAAAGACCAAGTGTGGCAGTGGAAATGGCTGGG  
GCTCCATCTGGACAAAAGTTGCTGAGGAAGGGACAAAGCCACCTCACGTGTATGTGCCTGTAGACATGG  
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CCTGTCCCAGAGACCACTGGCCGCCCGCTGACCAAGGCCTCATCTCAGGGACATCTGCCCACTGAGCTG  
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CAGGTGCCGTGAAGGTCCAGTCCCAAGCGCCTCTAGCCACCTGTCTGACCAAGACGCAGTCCCGGGGGCA  
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AGGCGGTGCCCTGCCAGGAGACACGGGCCCGCGGACGCTGGTGTGGTGGTGGCCAATCGTGAACCG  
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CGGTCCGGGGAGCCAAATGGTGTCCATGCAGGCTGCAGAGGAGATCCGCATCCTCGCAGTGATCACTATCC  
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TCTGCTGGCGCGGCTACAGCACCCGCGGACCAAGCCCGGCACTGGCAGATGCTCCACCCCGTACAGT  
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AGGATCGGGAGCCCGCCAGCGTGGTGTGCTAGTGGGCTCCAGCCCTCGCACCTGTATACCTGTGGAC  
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CTCCGCTACCACTGGTGTGCTGAGTCCAGGCAGCCGATCGCCAGGACAAAGCGGCCACAGCCATC  
CAGTCCGCTGGAGGGGCTTTAAGATCCGCCAGCAGATGAGGCAGCAGCAATGGCAGCGAAGATAGTTC  
AAGCCACTGGCGAGGCCACCATACCGGAGCTGTCTGAAGAACACAGAGGCGCTCTTGGGACAGCAGA  
CCCCTCGGCCAGCTCACGGCACATGCATTGGCCTGGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216646 representing NM\_025249  
Red=Cloning site Green=Tags(s)

MTLQGRADLSGNQGNAAAGRLATVHEPVVTQWAVHPPAPAHPSLLDKMEKAPPQPQHEGLKSKEHLPQQPA  
EGKTASRRVPRLRAVVESQAFKNILVDEMDMMHARAATLIQANWRGYWLRQKLISQMAAKAIQEAWRFF  
NKRHILHSSKSLVKKTRAEEGDIPYHAPQVRFQHPENRLLSPPIMVNKETQFPSCDNLVLCRPQSSPL  
LQPPAAQGTPEPCVQGPAAARVRGLAFLPHQTVTIRFPCPVSLDAKQPCLLTRTIRSTCLVHIEGDSVK  
TKRVSARTNKARAPETPLSRRYDQAVTRPSRAQTQGPVKAETPKAPFQICPGPMITKLLQTYPVVSVTL  
PQTYPASTMTTTPPKTSPVPKVTIIKTPAQMPGPTVTKTAPHTCPMPTMTKIQVHPTASRTGTPTQTCP  
ATITAKNRPQVSLASIMKSLPQVCPGPAMAKTPQMHPVTTAKNPLQTCLSATMSKTSSQSRSPVGVT  
PSPQTRLPAITKTPAQLRSVATILKTLCLASPTVANVKAPPQVAVAGTPNTSGSIHENPPKAKATVNV  
KQAAKVVKASSPSYLAEGKIRCLAQPHPGTGVPRAAELPLEAEIKTGTQKQAKTDMAFKTSVAVEMAG  
APSWTKVAEEGDKPPHYVVPVDMAVTLPRQLAAPLTNASSQRHPPCLSQRPLAAPLTAKSSQGHLPTEL  
TKTPSLAHLDTCLSKMHSQTHLATGAVKVQSQAPLATCLTKTQSRGQPIDITTCIPAHQAADLSSNTH  
SQVLLTGSKVSNHACQRLGGLSAPPWAKPEDRQTQPQPHGHVPGKTTQGGPCPAACEVQGMLVPPMAPTG  
HSTCNVESWGDNGATRAQPSMPGQAVPCQEDTGPADAGVVGGSWNRAWEPARGAASWDTWRNKAVVPPR  
RSGEPMVSMQAAEEIRILAVITIQAGVRGYLARRRIRLWHRGAMVIQATWRGYRVRRLAHLCRATTTIQ  
SAWRGYSTRDQARHWQMLHPVTWVELGSRAGVMSDRSWFQDGRARTVSDHRCFQSCQAHACSVCHSLSS  
RIGSPPSVVMLVGSSPRTCHTCGRTOPTRVVQGMGQTEGPGAVSWASAYQLAALSPRQPHRQDKAATAI  
QSAWRGFKIRQMRQQMAAKIVQATWRGHHTRSCLKNTEALLGPADPSASSRHHMHPGI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_025249

**ORF Size:** 3540 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\\_025249.2](#)

RefSeq Size: 3767 bp

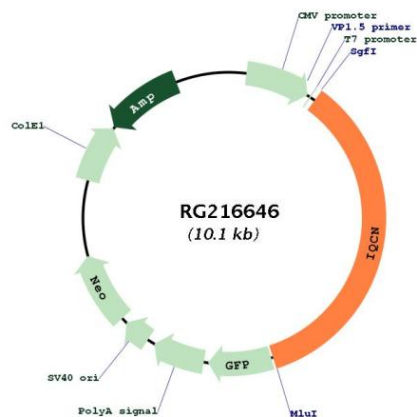
RefSeq ORF: 3543 bp

Locus ID: 80726

UniProt ID: [Q9H0B3](#)

Cytogenetics: 19p13.11

### Product images:



Circular map for RG216646