

## Product datasheet for **RG216058**

### TCF7L2 (NM\_030756) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | TCF7L2 (NM_030756) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | TCF7L2                                    |
| Synonyms:                 | TCF-4; TCF4                               |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>RG216058 representing NM\_030756  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGACGTGAACGGCGGTGGAGGGGATGACCTAGGCGCCAACGACGAACTGATTTCTTCAAAGACG  
 AGGGCGAACAGGAGGAGAAGAGCTCCGAAAACCTCTCGGCAGAGAGGGATTTAGCTGATGTCAAATCGTC  
 TCTAGTCAATGAATCAGAAACGAATCAAAAACAGCTCCTCCGATTCGAGGCGGAAAGACGGCCTCCGCCCT  
 CGCTCCGAAAGTTTCCGAGACAAATCCCGGAAAGTTTGAAGAAGCGGCCAAGAGGCAAGATGGAGGGC  
 TCTTTAAGGGGCCACCGTATCCCGGCTACCCCTTCATCATGATCCCCGACCTGACGAGCCCTACCTCCC  
 CAACGGATCGCTCTCGCCACCGCCCGAACCTATCTCCAGATGAAATGGCCACTGCTTGATGTCCAGGCA  
 GGGAGCCTCCAGAGTAGACAAGCCCTCAAGGATGCCCGGTCCCCATACCGGCACACATTGTCTTAACA  
 AAGTGCCAGTGGTGCAGCACCCCTCACCATGTCCACCCCTCACGCCTTTATCACGTACAGCAATGAACA  
 CTTACGCGGGAAACCCACCTCCACACTTACCAGCCGACGTAGACCCAAAACAGGAATCCACGCGCT  
 CCGCACCTCCAGATATATCCCGTATTACCCACTATCGCTGGCACCGTAGGACAAATCCCCATCCGC  
 TAGGATGGTTAGTACCACAGCAAGGTCAACCAGTGTACCCAATCACGACAGGAGGATTCAGACACCCCTA  
 CCCCACAGCTCTGACCGTCAATGCTTCCGTGTCCAGGTTCCCTCCCCATATGGTCCCACCACATCATACG  
 CTACACACGACGGGCAATCCGCATCCGGCCATAGTCACACCAACAGTCAAACAGGAATCGTCCCAGAGTG  
 ATGTCGGCTCACTCCATAGTTCAAAGCATCAGGACTCCAAAAGGAAGAAGAAAGAAAGAGCCCAT  
 AAAGAAACCTCTTAATGCATTATGTTGTATATGAAGGAAATGAGAGCAAAGGTCGTAGCTGAGTGCAG  
 TTGAAAGAAAGCGCGCCATCAACCAGATCCTTGGCGGAGGTGGCATGCACTGTCCAGAGAAGAGCAAG  
 CGAAATACTACGAGCTGGCCCGGAAGGAGCGACAGCTTCATATGCAACTGTACCCCGGCTGGTCCGCGG  
 GGATAACTATGGAAAGAAGAAGAAGAGGAAAGGACAAGCAGCGGAGAGACCAATGAACACAGCGAA  
 TGTTTCTAAATCCTTGCTTCTACTTCTCCGATTACAGACCTCAGCGCTCCTAAGAAATGCCAGCGC  
 GCTTTGGCCTTGATCAACAGAATAACTGGTGGCCCTTGCAGGAGAAAAAAGTGCCTTCGCTACAT  
 ACAAGGTGAAGGCAGCTGCCTCAGCCACCCTCTCAGATGGAAGCTTACTAGATTGCCTCCCCCTCC  
 CCGAACCTGCTAGGCTCCCCTCCCGAGACGCCAAGTACAGACTGAGCAGACCCAGCCTCTGCTGCTGT  
 CCCTGAAGCCGACCCCTGGCCACCTGTCCATGATGCCTCCGCCACCCGCCCTCTGCTCGTGAGGC  
 CACCCACAAGGCCTCCGCCCTGTGCCAACGGGGCCCTGGACCTGCCCCAGCCGCTTTCAGCCTGCC  
 GCCCCTCCTCATCAATTGCACAGCCGTGACTTCTTGTTACATTCCCACAGCTCCTGGCCGGGACCC  
 AGCCCCAGCCGCTGTCGCTCGTACCAAGTCTTTAGAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

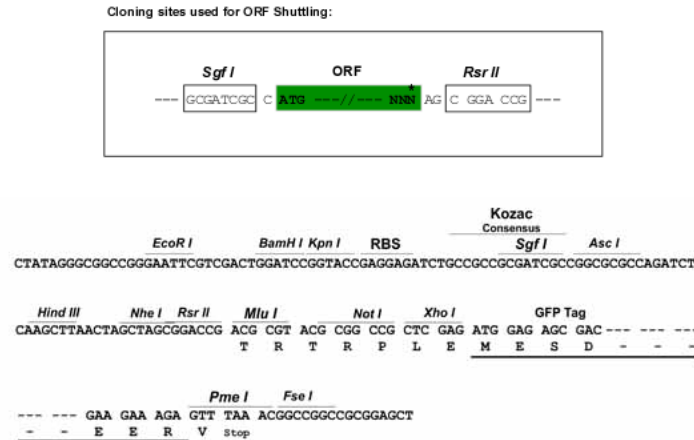
>RG216058 representing NM\_030756  
 Red=Cloning site Green=Tags(s)

MPQLNGGGDDLGANDELI SFKDEGEQEEKSSSENSAERDLADV KSSLVNESETNQSSSDSEARRPPP  
 RSESFDRKSRESLEEAQRQDGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPARTYLQMKWPLLDVQA  
 GSLQSRQALKDARSPSPAHIVSNKVPVQHPHHVHPLTPLITYSNEHFTPGNPPHLPADVDPKTI PRP  
 PHPPDISPYYP LSPGTVGQIPHPLGWLVPQQGPVYPIITGGFRHPYPTALTVNASVSRFPHPMVPHHT  
 LHTTGIPHPAIVTPTVKQESSQSDVGSLSHSSKHQDSKKEEKKKPHIKKPLNAFMLYMKEMRAKVAECT  
 LKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRKDKQPGETNEHSE  
 CFLNPCLSLPPIIDL SAPKKCRARFGLDQNNWCGPCRKKKCVRYIQEGSCLSPSSDGSLLDSPPPS  
 PNLLGSPPRDAKSQTEQTQPLSLKPDPLAHL SMMPPPPALLLAEATHKASALCPNGALDLPPAALQPA  
 APSSSIAQPSTSWLHSHSSLAGTQPQLSLVTKSLE

SGP**TRRRLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_030756

**ORF Size:** 1788 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\\_030756.2](#)

**RefSeq Size:** 2444 bp

**RefSeq ORF:** 1791 bp

**Locus ID:** 6934

**Cytogenetics:** 10q25.2-q25.3

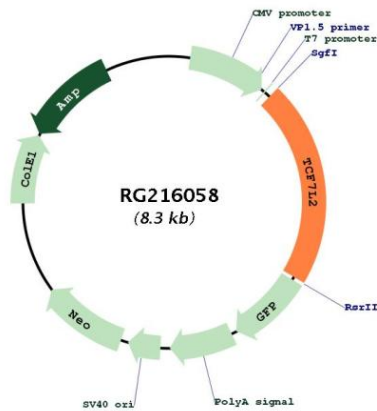
**Domains:** HMG

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Acute myeloid leukemia, Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Melanogenesis, Pathways in cancer, Prostate cancer, Thyroid cancer, Wnt signaling pathway

**Gene Summary:** This gene encodes a high mobility group (HMG) box-containing transcription factor that plays a key role in the Wnt signaling pathway. The protein has been implicated in blood glucose homeostasis. Genetic variants of this gene are associated with increased risk of type 2 diabetes. Several transcript variants encoding multiple different isoforms have been found for this gene.[provided by RefSeq, Oct 2010]

**Product images:**



Circular map for RG216058