

Product datasheet for **RG226680**

NFYC (NM_001142589) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NFYC (NM_001142589) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NFYC
Synonyms: CBF-C; CBFC; H1TF2A; HAP5; HSM; NF-YC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG226680 representing NM_001142589
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACAGAAGGAGGATTTGGTGGTACTAGCAGCAGTGATGCCAGCAAAGCCTACAGTCGTTCTGGC
 CTCGGGTCATGGAAGAAATCCGGAATTTAACAGTGAAAGACTTCCGAGTGCAGGAACTCCACTGGCTCG
 TATTAAGAAGATTATGAAACTGGATGAAGATGTGAAGAGAAATGATATCGCCATGGCAATTACAAAATTT
 GATCAGTTTGATTTTCTCATCGATATTGTTCCAAGAGATGAACTGAAACCTCAAAGCGTCAGGAGGAGG
 TCGCCAGTCTGTAACCTCTGCCGAGCCAGTCCAGTACTATTTACGCTGGCTCAGCAACCCACCGCTGT
 CCAAGTCCAGGGCCAGCAGCAAGGCCAGCAGACCACAGCTCCACGACCACCATCCAGCCTGGGCAGATC
 ATCATCGCACAGCCTCAGCAGGGCCAGACCACACCTGTGACAATGCAGGTTGGAGAAGGTCAGCAGGTGC
 AGATTGTCCAGGCTCAGCCACAGGGTCAAGCCCAACAGGCCAGAGTGGCACTGGACAGACCATGCAGGT
 GATGCAGCAGATCATCACTAACACAGGAGAGATCCAGCAGATCCCGGTGCAGCTGAATGCCGGCCAGCTG
 CAGTATATCCGCTTAGCCAGCCTGTATCAGGCACTCAAGTTGTGCAGGGACAGATCCAGACACTTGCCA
 CCAATGCTCAACAGATTACACAGACAGAGGTCCAGCAAGGACAGCAGCAGTTCAGCCAGTTCACAGATGG
 ACAGCAGCTCTACCAGATCCAGCAAGTCACCATGCCTGCGGGCCAGGACCTCGCCAGCCCATGTTTCATC
 CAGTCAGCCAACCAGCCCTCCGACGGCCAGGCCCCCAAGGTGACCGGCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226680 representing NM_001142589
Red=Cloning site Green=Tags(s)

MSTEGGFGGTSSSDAQQSLQSFWRVMEIERNLTVKDFRVQELPLARIKKIMKLEDEDVKNRNDIAMAITKF
DQDFDLIDIVPRDELKPPKRQEEVRSVTPAEPVQYYFTLAQQPTAVQVQGGQQGQTTSSSTTTIQPGQI
IIAQPPQGQTPVTMQVGEQQVQIVQAQPPGQAQAQSGTGQTMQVMQIITNTGEIQQIPVQLNAGQL
QYIRLAQPVSGTQVVQGGIQTALATNAQQITQTEVQQGGQQFSQFTDGGQLYQIQQVTMPAGQDLAQPMMI
QSANQPSDGGAPQVTGD

TRTRPLE - GFP Tag - V

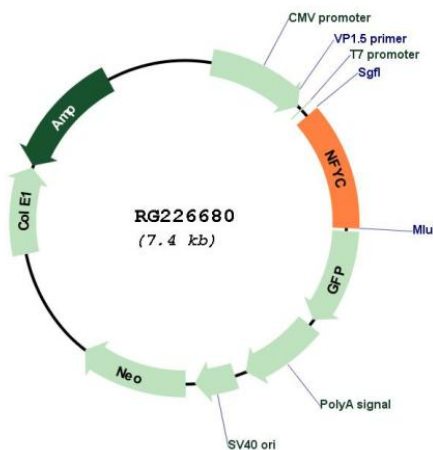
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001142589

ORF Size: 891 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001142589.2 |
| RefSeq Size: | 1991 bp |
| RefSeq ORF: | 894 bp |
| Locus ID: | 4802 |
| UniProt ID: | Q13952 |
| Cytogenetics: | 1p34.2 |
| Protein Families: | Transcription Factors |
| Protein Pathways: | Antigen processing and presentation |
| Gene Summary: | This gene encodes one subunit of a trimeric complex forming a highly conserved transcription factor that binds with high specificity to CCAAT motifs in the promoters of a variety of genes. The encoded protein, subunit C, forms a tight dimer with the B subunit, a prerequisite for subunit A association. The resulting trimer binds to DNA with high specificity and affinity. Subunits B and C each contain a histone-like motif. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008] |