

## Product datasheet for **RG226845**

### NFYC (NM\_001142590) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NFYC (NM\_001142590) 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:** >RG226845 representing NM\_001142590  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCACAGAAGGAGGATTTGGTGGTACTAGCAGCAGTGATGCCAGCAAAGCCTACAGTCGTTCTGGC  
 CTCGGGTCATGGAAGAAATCCGGAATTTAACAGTGAAAGACTTCCGAGTGCAGGAACTCCCACTGGCTCG  
 TATTAAGAAGATTATGAAACTGGATGAAGATGTGAAGATGATCAGTGCAGAAGCGCCTGTACTCTTTGCC  
 AAGGCAGCCAGATTTTATCACAGAGTTGACTCTTCGAGCCTGGATTACACAGAAGATAACAAGCGCC  
 GGACTCTACAGAGAAATGATATCGCCATGGCAATTACAAAATTTGATCAGTTTGATTTTCTCATCGATAT  
 TGTTC AAGAGATGAACTGAAACCTCAAAGCGTCAGGAGGAGGTGCGCCAGTCTGTAACCTCTGCCGAG  
 CAGTCCAGTACTATTTACGCTGGCTCAGCAACCCACCCTGTCCAAGTCCAGGGCCAGCAGCAAGGCC  
 AGCAGACCACAGCTCCACGACCACCATCCAGCCTGGGCAGATCATCATCGCACAGCCTCAGCAGGGCCA  
 GACCATGCAGGTGATGCAGCAGATCACTAACACAGGAGAGATCCAGCAGATCCCGGTGCAGTGAAT  
 GCCGGCCAGTGCAGTATATCCGCTTAGCCAGCCTGTATCAGGCACTCAAGTTGTGCAGGGACAGATCC  
 AGACACTTGCCACCAATGCTCAACAGATTACACAGACAGAGGTCCAGCAAGGACAGCAGCAGTTACGCCA  
 GTTCACAGATGGACAGCAGCTCTACCAGATCCAGCAAGTACCATGCCTGCGGGCCAGGACCTCGCCAG  
 CCCATGTTTCATCCAGTCAGCCAACCCAGCCTCCGACGGCAGGCCCCAGGTTGACCGGGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG226845 representing NM\_001142590  
Red=Cloning site Green=Tags(s)

MSTEGFGGTSSSDAQQSLQSFWRVMEIERNLTVKDFRVQELPLARIKKIMKLDDEDVKMISAEAPVLF  
 KAAQIFITELTLRAWIHTEDNKRRTLQRNDIAMAITKFDQDFLDIVPRDELKPPKRQEEVRSVTPAE  
 PVQYYFTLAQQPTAVQVQGGQQGQTTSSSTTTIQPGQIIIAQPQQGQTMQVMQIIITNTGEIQIIPVQLN  
 AGQLQYIRLAQPVSGTQVVQGIQTLATNAQQITQTEVQQGQQFSQFTDGQQLYQIQVVTMPAGQDLAQ  
 PMFIQSANQPSDGQAPQVTGD

TRTRPLE - GFP Tag - V

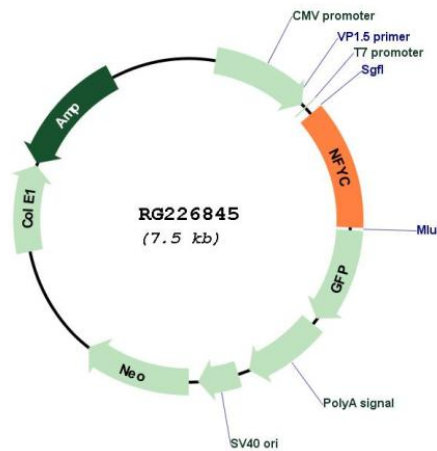
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001142590

**ORF Size:** 903 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001142590.2</a>
<b>RefSeq Size:</b>	2380 bp
<b>RefSeq ORF:</b>	906 bp
<b>Locus ID:</b>	4802
<b>UniProt ID:</b>	<a href="#">Q13952</a>
<b>Cytogenetics:</b>	1p34.2
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation
<b>Gene Summary:</b>	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]