

## Product datasheet for **RG225554**

### GTF3A (NM\_002097) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | GTF3A (NM_002097) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | GTF3A   |
| Synonyms:                 | AP2; TFIIIA   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG225554 representing NM_002097<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

CTGGATCCGCCGGCCGTGGTCGCCGAGTCGGTGTCTGCTCCTTGACCATCGCCGACGCGTTCATTGCAGCCG  
GCGAGAGCTCAGCTCCGACCCCGCCGCGCCCGCGCTTCCAGGAGGTTTCATCTGCTCCTCCCTGACTG  
CAGCGCAATTACAGCAAAGCCTGGAAGCTTGACGCGCACCTGTGCAAGCACACGGGGGAGAGACCATT  
GTTTGTGACTATGAAGGGTGTGGCAAGGCCTTCATCAGGGACTACCATCTGAGCCGCCACATTCTGACTC  
ACACAGGAGAAAAGCCGTTTGTGGTGCAGCCAATGGCTGTGATCAAAAATCAACACAAAATCAAACCT  
GAAGAAACATTTGAACGCAAACATGAAAATCAACAAAACAATATATATGCAGTTTTGAAGACTGTAAG  
AAGACCTTAAAGAAACATCAGCAGCTGAAAATCCATCAGTGCCAGCATACCAATGAACCTCTATTCAAGT  
GTACCCAGGAAGGATGTGGGAAACACTTTCATCACCCAGCAAGCTGAAACGACATGCCAAGGCCACGA  
GGGCTATGTATGTCAAAAAGGATGTTCCCTTTGGGCAAAAACATGGACGGAACCTTCTGAAACATGTGAGA  
GAAACCCATAAAGAGGAAATACTATGTGAAGTATGCCGAAAACATTTAAACGCAAAGATTACCTTAAGC  
AACACATGAAAACATGCCCCAGAAAGGATGTATGTCGCTGTCCAAGAGAAGGCTGTGGAAGAACCTA  
TACAACTGTGTTAATCTCCAAAGCCATATCCTCTCCTCCATGAGGAAAGCCGCCCTTTGTGTGTGAA  
CATGCTGGCTGTGGCAAAACATTTGCAATGAAACAAAGTCTCACTAGGCATGCTGTTGTACATGATCCTG  
ACAAGAAGAAAATGAAGCTCAAAGTCAAAAATCTCGTGAAAACGGAGTTTGGCCTCTCATCTCAGTGG  
ATATATCCCTCCAAAAGGAAACAAGGGCAAGGCTTATCTTTGTGTCAAAACGGAGAGTACCCAACTGT  
GTGGAAGACAAGATGCTCTCGACAGTTGACAGTACTTACCCTTGCC

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



[View online »](#)

**Protein Sequence:** >RG225554 representing NM\_002097  
 Red=Cloning site Green=Tags(s)

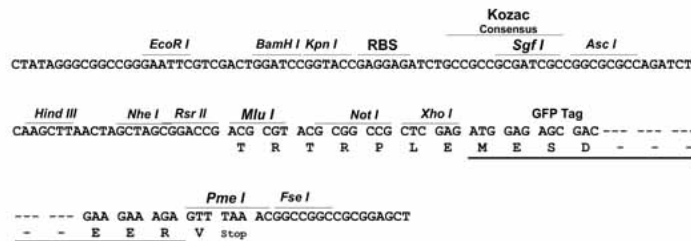
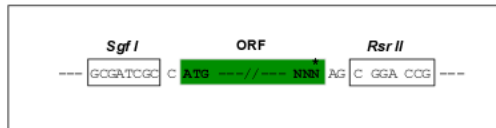
LDPPAVVAESVSSSLTIADAFIAAGESSAPTPRPALPRRFICSPDPCSANYSKAWKLD AHLCKHTGERPF  
 VCDYEGCGKAFIRDYHL SRHIL THTGEKPFVCAANGCDQKFNTKSNLKKHFERKHENQKQYICSFEDCK  
 KTFKKHQQLKIHQCQHTNEPLFKCTQEGCGKHFASPSKLRHAKAHEGYVCQKGC SFVAKTWTELLKHVR  
 ETHKEEILCEVCRKTFKRKDYLKQHKMTHAPERDVCRCPREGCGRTYTTVFNLQSHILSFHEESRPFVCE  
 HAGCGKTFAMKQSLTRHAVVHDPDKKMKLKVKKSREKRSLASHLSGYIPPKRKQQLSLCQNGESPNC  
 VEDKMLSTVAVLTLG

SGP TRRRLE - GFP Tag - V

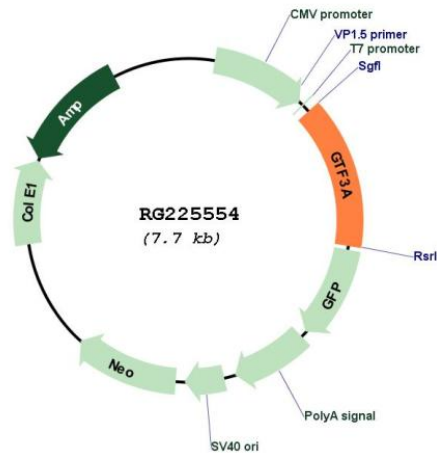
**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_002097

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 1095 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_002097.3</a>  |
| <b>RefSeq Size:</b>           | 1404 bp  |
| <b>RefSeq ORF:</b>            | 1098 bp  |
| <b>Locus ID:</b>              | 2971   |
| <b>UniProt ID:</b>            | <a href="#">Q92664</a>   |
| <b>Cytogenetics:</b>          | 13q12.2  |
| <b>Protein Families:</b>      | Transcription Factors  |
| <b>Gene Summary:</b>          | The product of this gene is a zinc finger protein with nine Cis[2]-His[2] zinc finger domains. It functions as an RNA polymerase III transcription factor to induce transcription of the 5S rRNA genes. The protein binds to a 50 bp internal promoter in the 5S genes called the internal control region (ICR), and nucleates formation of a stable preinitiation complex. This complex recruits the TFIIC and TFIIB transcription factors and RNA polymerase III to form the complete transcription complex. The protein is thought to be translated using a non-AUG translation initiation site in mammals based on sequence analysis, protein homology, and the size of the purified protein. [provided by RefSeq, Jul 2008] |