

## Product datasheet for **RG200601**

### HIV TAT specific factor 1 (HTATSF1) (NM\_014500) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HIV TAT specific factor 1 (HTATSF1) (NM_014500) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIV TAT specific factor 1
Synonyms:	dj196E23.2; TAT-SF1; TATSF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG200601 representing NM\_014500  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGCACCAACTTGGATGGGAACGATGAGTTTATGAGCAGTTGCGAATGCAAGAATTGTACGGAG  
 ACGGCAAGGATGGTGACACCCAGACCGATGCCGCGGAGAACCCGATTCTCTCGGCAGCAGCCGACGGA  
 CACTCCCTACGAGTGGGACCTGGACAAAAAGGCTTGGTTCCCAAGATTACTGAAGATTTTATTGCTACA  
 TATCAGGCCAATTATGGCTTCTCTAACGATGGCGCATCTAGTTCTACCGCAAATGTTGAAGATGTCCATG  
 CTAGGACTGCAGAGGAACCTCCACAAGAAAAAGCCCCGAAACCCACTGATGCCAGAAAGAAGGGAGAAAA  
 AAGAAAGGCTGAGTCAGGATGGTTTCATGTTGAAGAAGACAGAAATACAATGTATACGTGTCTGGTTTG  
 CCTCCAGATATTACAGTGGATGAATTTATACAACCTTATGTCCAAGTTTGGCATTATTATGAGAGATCCTC  
 AGACAGAAGAATTAAGGTCAAACCTTACAAGATAATCAAGGAAATCTTAAAGGAGACGGTCTTTGCTG  
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 TTACATGTTGAGGTGGCAAAGTTTCAACTGAAGGGAGAATATGATGCCTCAAAGAAGAAGAAGTGC  
 AAGACTATAAGAAGAAGCTGTCTATGCAACAAAAGCAGTTGGATTGGAGACCTGAGAGGCCGACCCGACC  
 ATCCCGGATGCGCCATGAGCGAGTTGTCATCATCAAGAATATGTTTCATCCTATGGATTTTGGAGATGAT  
 CCGTTGGTGTGAATGAGATCAGAGAAGACCTTCGAGTAGAGTGTTCGAAGTTTGGACAAATTAGGAAAC  
 TCCTTCTCTTTGATAGGCACCCAGATGGTGTGGCTCTGTGTCTTTTCGGGATCCAGAGGAAGCTGATTA  
 TTGATTCAGACTCTCGATGGAAGATGGTTTGGTGGCCGTCAAATCACTGCCAGGCATGGGATGGGACT  
 ACAGATTATCAGGTGGAGGAAACCTCAAGAGAAAGGGAGGAAAGGCTGAGAGGATGGGAGGCTTTCCTCA  
 ATGCTCTGAGGCCAACAGAGGCCCTTAGCGCTTCAGATTCTGTCTGTCTTCCGAAAGGGCAGGGCCTTC  
 TAGAGCAAGGCATTTTTTCAGAGCACCCAGCACATCTAAAATGAATGCTCAAGAAACTGCAACTGGAATG  
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 TGAAAAAGTGTTAGATGAGGAAGGCTCTGAGAGAGAGTTTACGAAGATTGAGATGAAAAGGAAGAAGAG  
 GAGGATACATATGAAAAGTATTTGATGATGAGTCTGATGAGAAAGAGGATGAAGAATATGCAGATGAAA  
 AGGGGCTTGAAGCTGCTGATAAAAAGGCCGGAAGAAGGTGATGCAGATGAAAAGCTGTTTGAAGAGTCAGA  
 TGACAAGGAAGATGAAGATGCAGATGGAAGGAAGTTGAAGATGCTGACGAAAAGTTGTTTCGAAGATGAT  
 GATTCCAATGAGAAGTTGTTTGGTGGAGTGTGAAGAAGGGCCCTATCCACTGGCAGCAGCTTATTCTCAG  
 GGGGACTTTGGGTGGTTTGGGAGTGTGAAGAAGGGCCCTATCCACTGGCAGCAGCTTATTCTCAG  
 TAGCGATGATGACGATGATATT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG200601 representing NM\_014500  
Red=Cloning site Green=Tags(s)

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MSGTNLDGNDEFDEQLRMQEL YDGDGKDGDTQTDAGGEPDSL GQQPTDTPYEWDL DKKAWFPKITEDFIAT
YQANYGF SNDGASSSTANVEDVHARTAEPPQEKAPEPTDARKKGEKRKAESGWFHVEEDRNTNVVYV SGL
PPDITVDEFIQLMSKFGIIMRDPQTEEFKVKLYKDNQGNLKG DGLCCYLKRESVELAKLLDEDEIRGYK
LHVEVAKFQLKGEYDASKKKKKCKDYKKKLSMQQKQLDWRPERRAGPSRMRHERVVIIKNMFHPMDFEDD
PLVLNEIREDLRVECSKFGQIRKLLL FDRHPDGVASVSFRDPEEADYCIQTL DGRWFGGRQITAQAWDGT
TDYQVEETSREEREERLRGWEAFLNAPEANRGLRRSDSVSASERAGPSRARHFSEHPSTSKMNAQETATGM
AFEETIDEKKFEKTEDGGFEFE GASENNAKESSEPEKEAEEGCEPEKESEEGCPKRGFE GSCSQKESEEGNP
VRGSEEDSPKESKKTLLKNDCEENLAKESEDDL NKESEEEVGP TKESEEDDSEKESDEDCSEKQSE DG
SEREFEENLEKDLDEEGSEKELHENVLDKELEENDSENSEFEDDGSEKVLDEEGSEREFDEDSDEKEEE
EDTYEKFVDFDESDEKEDEEYADEKGLEAADKKAEEGDADEKLFEE SDDKEDEDADGKEVEDADEKLFEDD
DSNEKLFDEEEDSSEKLFDDSDERGT LGGFGSVEEGPLSTGSSFILSSDDDDDDDI
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014500

**ORF Size:** 2265 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\\_014500.5](#)

**RefSeq Size:** 2788 bp

**RefSeq ORF:** 2268 bp

**Locus ID:** 27336

**UniProt ID:** [O43719](#)

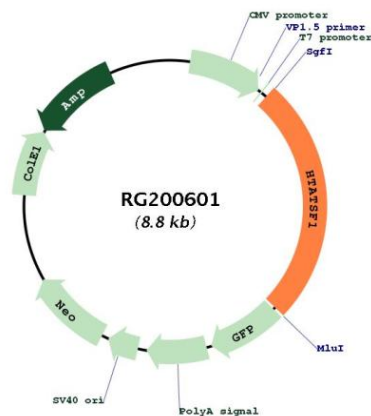
**Cytogenetics:** Xq26.3

**Domains:** RRM

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene functions as a cofactor for the stimulation of transcriptional elongation by HIV-1 Tat, which binds to the HIV-1 promoter through Tat-TAR interaction. This protein may also serve as a dual-function factor to couple transcription and splicing and to facilitate their reciprocal activation. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Sep 2009]

### Product images:



Circular map for RG200601