

Product datasheet for **RC229011**

HIV TAT specific factor 1 (HTATSF1) (NM_001163280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIV TAT specific factor 1 (HTATSF1) (NM_001163280) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIV TAT specific factor 1
Synonyms:	dj196E23.2; TAT-SF1; TATSF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC229011 ORF sequence, **codon optimized**.
Due to the complexity of NM_001163280, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCGGGACAAACCTGGACGGGAACGACGAGTTTGACGAGCAACTGCGAATGCAGGAGCTGTATGGCG
 ATGGGAAAGACGGTGACACACAGACCGATGCAGGCGCGAGCCAGATTCTCTGGGCAACAGCCAACAGA
 CACCCCATACGAATGGGACCTCGACAAGAAGCCCTGGTCCCAAAGATTACAGAGGACTTTATCGCCACA
 TATCAGGCCAATTATGGTTTCAGCAATGACGGGGCTTCTCAAGTACAGCTAACGTAGAGGATGTCCATG
 CCCGAACCGCGGAAGAACCTCCACAGGAAAAGGCCCTGAGCCGACCGACGCGAGAAAGAAAGGGGAAAA
 GAGAAAGGCAGAGTCAGGCTGGTTCATGTGAGGAGGACCGCAATACCAACGTCTACGTGTGAGGATTG
 CCGCCGACATAACCGTAGACGAGTTTATTAGTTGATGTCTAAATTTGGCATTATCATGCGCGATCCCC
 AGACAGAAGAGTTCAAGGTGAAGCTGTACAAGGACAATCAGGGAAATCTGAAGGGCGATGGCCTGTGTTG
 TTACCTGAAGAGGGAGTCCGTCGAGTTGGCCTTGAAGCTCCTCGACGAAGATGAGATCAGAGGATAAAG
 CTTTATGTGGAGGTGGCAAGTTCCAACCAAAGGAGAATATGATGCAAGCAAAAAGAAGAAAAAGTGCA
 AGGATTACAAGAAAAAGCTGTCTATGCAGCAGAAAACAGCTCGATTGGCGACCGGAGCGGAGCCGGCCC
 ATCCCGGATGAGGCATGAACGGTGGTGATCATAAAGAACATGTTCCATCCAATGGATTTCGAGATGAC
 CCACCTGTGTTGAACGAGATCCGGGAAGACCTTAGGGTTGAGTGCTCTAAGTTTCGGCCAGATTCGAAAGC
 TGCTGCTGTTGATCGCCACCCAGACGGTGTGCGCTCAGTCAGTTTTAGAGATCCAGAAGAGGCGGACTA
 TTGCATCCAGACTCTCGACGGGCGTGGTTTGGAGGGCGCCAGATTACAGCGCAGGCTTGGGACGCGACA
 ACAGACTATCAAGTCGAAGAGACATCCAGAGAGCGGGAAGACGCTGCGAGGCTGGGAGGCTTTTCTGA
 ACGCACCTGAAGCCAATCGGGGACTTAGACGGAGTGATTAGTGAGCGCGTCCGAACGCGCTGGCCCTTC
 CCGGGCCAGGCATTTAGCGAGCACCTAGCACATCCAAGATGAATGCGCAGGAAACCGCTACCGGCATG
 GCCTTTGAAGAACCTATTGATGAAAAGAAGTTTGAAGAACTGAAGACGGAGGCGAATTCGAGGAGGGG
 CCTCAGAAAATAATGCCAAGGAATCAAGCCAGAGAAAGAGGCGGAGGAGGTTGCCAGAAAAGGAATC
 TGAAGAAGGATGTCTAAAAGGGGGTTGAGGGCTCTTGCAGTCAGAAGGAAAGCGAGGAAGGCAACCCG
 GTGCGCGGCTCAGAGGAAGACAGCCCTAAGAAGGAAAGCAAGAAAAGACCCCTAAAAACGATTGTGAGG
 AAAACGGACTGGCCAAAGAATCTGAAGACGATCTGAACAAGGAAAGTGAAGAAGAGGTTGGACCAACGAA
 AGAGTCTGAAGAAGATGACTCCGAGAAGGAAAGTGATGAGGACTGTTCTGAAAAACAATCCGAGGACGGG
 TCAGAGAGGGAATTCGAGGAGAAATGGACTCGAGAAAGATCTGGACGAGGAGGGATCCGAAAAGGAGCTGC
 ACGAGAACGTGCTGGACAAAGAGCTCGAGGAGAACGATTCCGAAAACCTCGAATTCGAGGACGACGGCAG
 TGAAAAGGTATTGGATGAGGAGGGCTCTGAGAGGGAGTTTACGAAGACTCCGATGAGAAAGAAGAGGAG
 GAAGATACCTATGAGAAAGTGTTCGACGACGAAAGTGATGAGAAGGAGGATGAGGAATATGCGGACGAAA
 AGGGTCTGGAGGCGCTGATAAAAAGGCTGAGGAGGGGGATGCGGATGAGAAGTTGTTGAAAGTCTGA
 CGACAAAAGAAGATGAAGATGCTGATGGGAAAGAGGTAGAGGATGCTGATGAAAAGCTCTTCGAAGATGAC
 GATTCAAACGAGAAACTGTTTATGAAGAGGAAGACAGTAGCGAAAAACTGTTTCGACGATAGCGATGAGA
 GAGGCACATTGGGCGGATTTGGTCAAGTGAAGAGGGCCCTCTCTACTGGGTCTAGCTTATTCTGAG
 CTCTGATGATGATGACGACGATATC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229011 representing NM_001163280
 Red=Cloning site Green=Tags(s)

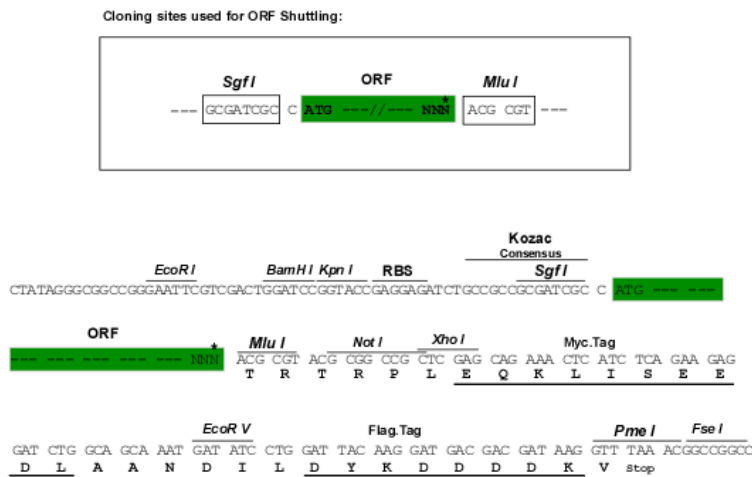
MSGTNLDGNDEFDEQLRMQEL YDGDGKDGDTQTDAGGEPDSL GQQPTDTPYEWDL DKKAWFPKITEDFIAT
 YQANYGF SNDGASSTANVEDVHARTAEPPQEKAPETDARKKGEKRKAESGWFHVEEDRNTNVYVSGL
 PPDITVDEFIQLMSKFGIIMRDPQTEEFKVKLYKDNQGNLKG DGLCCYLKRESVELALKLLDEDEIRGYK
 LHVEVAKFQLKGEYDASKKKKKCKDYKKKLSMQQKQLDWRPERRAGPSRMRHERVVIK NMFHPMDFEDD
 PLVLEIREDLRVECSKFGQIRKLLL FDRHPDGVASVSFRDPEEADYCIQTL DGRWFGGRQITAQAWDGT
 TDYQVEETSREEREERLRGWEAFLNAPEANRGLRRSDSVSASERAGPSRARHFSEHPSTSKMNAQETATGM
 AFEEPIDEKKFEKTEDGGFEFEGASENNAKESSEPEKEAEEGCPEKESEEGCPKRGFEGSCSQKESSEEGNP
 VRGSEEDSPKESKKT LKNDCEENLAKESEDDL NKESEEEVGP TKESEEDDSEKESDEDCSEKQSEGD
 SEREFEENLEKDLDEEGSEKELHENVLDKELEENDSENSEFEDDGSEKVLDEEGSEREFDEDSDEKEEE
 EDTYEVKVFDDSEKED EYADEKGLEAADKKAEEGDADEKL FEE SDDKEDEDADGKEVEDADEKL FEDD
 DSNEKLFDEEEDSSEKLFDDSDERGT LGGFGSVEEGLSTGSSFILSSDDDDDDDI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

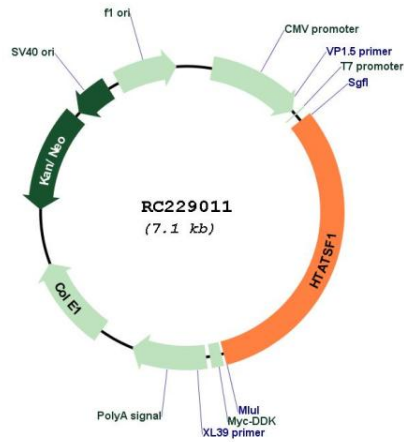
Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001163280
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:	<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_001163280.1 , NP_001156752.1
RefSeq Size:	3037 bp
RefSeq ORF:	2268 bp
Locus ID:	27336
UniProt ID:	O43719
Cytogenetics:	Xq26.3
Protein Families:	Transcription Factors
MW:	85.9 kDa
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 RC229011