OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC215211

ST18 (NM_014682) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST18 (NM_014682) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST18
Synonyms:	NZF-3; NZF3; ZC2H2C3; ZC2HC10; ZNF387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC215211 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGCAGAGGCTGAAGATAAAACGCTGCGTACTCGCTCTAAAGGAACCGAGGTGCCAATGGATTCAC
TAATCCAGGAGCTCAGTGTTGCCTATGATTGCTCCATGGCAAAGAAGAGAACAGCTGAAGATCAGGCTTT
GGGGGTTCCAGTCAACAAAAGGAAATCCCTGCTAATGAAGCCCCGACACTACAGCCCAAAAGCAGACTGC
CAAGAAGACCGCAGTGACAGGACAGAGGACGATGGCCCCTTGGAAACACATGGTCACTCTACCGCAGAGG
AAATCATGATAAAACCTATGGATGAAAGTCTTCTTTCAACTGCACAAGAAAACTCCAGTAGGAAGGAAGA
CAGATACTCTTGTTATCAAGAGCTCATGGTCAAGTCTTTAATGCACTTGGGGAAATTTGAAAAAAATGTA
TCTGTTCAGACTGTAAGTGAAAATTTAAATGACAGTGGCATCCAGTCTTTAAAAGCAGAGAGCGATGAAG
CAGACGAGTGCTTTCTGATTCATTCTGATGATGGAAGAGACAAGATTGATGATTCTCAGCCACCCTTCTG
CTCCTCTGATGACAATGAAAGTAACTCTGAAAGTGCAGAAAATGGCTGGGACAGTGGCTCCAACTTCTCA
GAAGAAACCAAACCACCTAGAGTCCCAAAGTATGTTTTAACAGATCATAAAAAAGACCTATTGGAAGTTC
CTGAAATAAAAACTGAAGGTGACAAATTTATCCCTTGTGAGAACAGGTGTGATTCTGAAACAGAAAGGAA
AGACCCGCAGAATGCTCTCGCAGAACCCCTGGATGGCAATGCCCAGCCCTCATTCCCTGACGTTGAGGAG
GAAGATAGCGAGAGCCTGGCAGTAATGACGGAAGAGGGTAGTGACCTGGAAAAGGCCAAGGGGAATTTAA
GTTTGCTGGAGCAGGCAATTGCTCTGCAGGCTGAGCGAGGTTGTGTTTTCCATAACACCTACAAAGAGCT
GGATAGGTTCCTGCTGGAGCACCTAGCAGGGGAAAGGAGGCAAACCAAAGTTATCGACATGGGTGGAAGA
CAAATCTTTAACAATAAACATTCACCAAGGCCTGAAAAGAGGGAGACCAAGTGCCCGATCCCTGGATGTG
ATGGCACGGGACACGTGACAGGGCTCTACCCGCACCACCGCAGCCTTTCGGGGTGCCCCCACAAAGTGCG
GGTTCCCCTGGAAATTCTTGCCATGCATGAAAATGTGCTCAAGTGTCCCACGCCGGGATGCACAGGAAGG
GGTCATGTGAACAGCAACCGCAACACCCACAGGAGTCTTTCTGGTTGTCCAATTGCTGCAGCTGAAAAAT
TGGCAATGTCCCAGGATAAAAATCAGCTTGATTCTCCCCAAACTGGGCAGTGTCCTGACCAGGCCCACAG
GACAAGTTTGGTGAAGCAAATTGAATTCAATTTCCCGTCACAAGCCATCACCTCTCCCAGAGCCACAGTG

View online »

TCAAAAGAACAAGAGAAGTTTGGAAAAGTACCATTTGATTATGCCAGTTTTGATGCCCAAGTTTTCGGTA
AACGCCCTCTCATACAAACAGTGCAAGGACGAAAAACACCACCATTTCCTGAATCAAAGCATTTTCCAAA
TCCAGTGAAATTTCCTAATCGACTGCCTAGTGCAGGCGCCCACACCCAGAGCCCTGGCCGTGCCAGCTCT
TATAGCTACGGTCAATGTAGTGAAGACACCCACATAGCAGCAGCTGCTGCCATCCTGAACCTTTCCACCC
GCTGCAGGGAAGCCACAGACATCCTCTCCAACAAGCCACAGAGTCTGCATGCCAAGGGAGCCGAAATAGA
AGTGGATGAAAATGGCACATTGGACTTAAGCATGAAAAAAAATCGAATCCTGGACAAGTCTGCACCCCTA
ACTTCCTCTAACACTTCTATTCCAACTCCTTCCTCTTCCCCATTCAAAACAAGCAGCATTCTGGTCAATG
CAGCATTCTATCAGGCTCTTTGTGACCAAGAGGGCTGGGACACTCCTATCAACTATAGCAAAACTCACGG
GAAGACAGAGGAGGAGAAAGAGAAAGACCCAGTGAGCTCTCTAGAAAATTTAGAGGAAAAAAAGTTTCCT
GGAGAGGCCTCTATACCAAGCCCTAAACCCAAGCTTCATGCAAGAGATCTCAAAAAGGAACTAATCACCT
GTCCAACACCAGGATGTGATGGAAGTGGCCACGTGACAGGAAACTATGCATCTCATCGCAGTGTTTCTGG
ATGTCCTTTAGCAGATAAGACTCTAAAATCCCTCATGGCTGCCAACTCTCAGGAGCTTAAGTGTCCAACC
CCAGGCTGCGATGGCTCGGGGCACGTGACTGGAAACTATGCTTCCCACAGAAGCTTGTCCGGATGCCCTC
GTGCAAGGAAAGGTGGTGTCAAAATGACCCCTACCAAGGAAGAAAAAGAAGACCCTGAACTGAAATGTCC
TGTGATAGGGTGTGATGGCCAAGGTCACATATCAGGTAAATACACATCACACCGCACAGCTTCTGGCTGT
CCTCTGGCTGCCAAGAGACAGAAGGAGAATCCTCTCAATGGAGCCTCCCTCTCCTGGAAACTGAACAAAC
AAGAGCTACCACATTGTCCCTTGCCAGGCTGCAATGGGCTGGGCCATGTAAATAATGTTTTTGTCACCCA
CCGAAGCTTATCTGGATGTCCTCTCAATGCACAAGTTATCAAAAAGGGCAAGGTTTCTGAAGAACTCATG
ACCATCAAGCTCAAAGCAACTGGGGGAATAGAGAGTGATGAAGAAATTAGGCATTTGGATGAAGAAATAA
AGGAACTGAATGAATCCAACCTTAAAATTGAAGCAGATATGATGAAACTTCAGACCCAGATCACATCTAT
GGAGAGCAACTTAAAGACGATAGAGGAGGAGAACAAACTCATAGAACAGAACAATGAAAGTCTGCTGAAA
GAGCTGGCAGGTCTAAGCCAAGCTCTCATTTCAAGCCTTGCTGACATCCAGCTTCCACAGATGGGACCTA
TCAGTGAGCAGAATTTTGAAGCATATGTAAATACACTCACAGATATGTACAGCAATCTGGAACGGGACTA
TTCCCCGGAATGCAAAGCTCTACTGGAAAGTATCAAACAGGCAGTGAAGGGTATCCATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215211 protein sequence
Red=Cloning site Green=Tags(s)

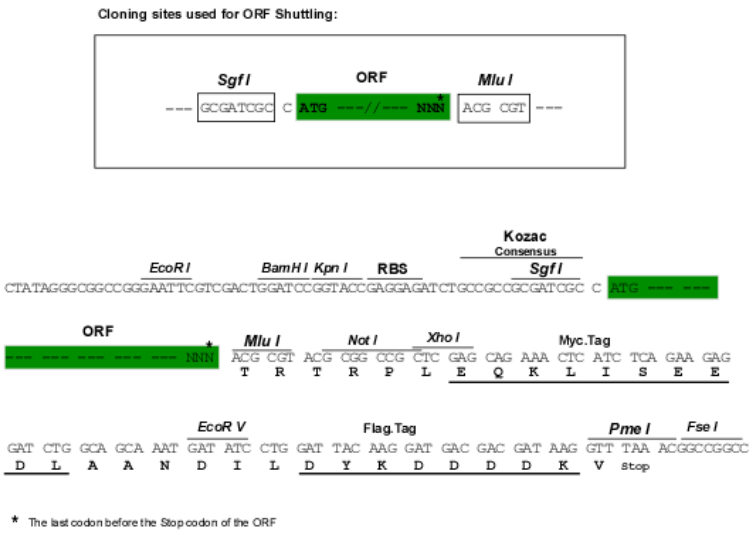
MDAEAEDKTLRTRSKGTEVPMDSLIQELSVAYDCSMAKKRTAEDQALGVPVNKRKSLLMKPRHYSPKADC
QEDRSDRTEDDGPLETHGHSTAEEIMIKPMDESLLSTAQENSSRKEDRYSCYQELMVKSLMHLGKFEKNV
SVQTVSENLNDSGIQSLKAESDEADECFLIHSDDGRDKIDDSQPPFCSSDDNESNSESAENGWDSGSNFS
EETKPPRVPKYVLTDHKKDLLEVPEIKTEGDKFIPCENRCDSETERKDPQNALAEPLDGNAQPSFPDVEE
EDSESLAVMTEEGSDLEKAKGNLSLLEQAIALQAERGCVFHNTYKELDRFLLEHLAGERRQTKVIDMGGR
QIFNNKHSPRPEKRETKCPIPGCDGTGHVTGLYPHHRSLSGCPHKVRVPLEILAMHENVLKCPTPGCTGR
GHVNSNRNTHRSLSGCPIAAAEKLAMSQDKNQLDSPQTGQCPDQAHRTSLVKQIEFNFPSQAITSPRATV
SKEQEKFGKVPFDYASFDAQVFGKRPLIQTVQGRKTPPFPESKHFPNPVKFPNRLPSAGAHTQSPGRASS
YSYGQCSEDTHIAAAAAILNLSTRCREATDILSNKPQSLHAKGAEIEVDENGTLDLSMKKNRILDKSAPL
TSSNTSIPTPSSSPFKTSSILVNAAFYQALCDQEGWDTPINYSKTHGKTEEEKEKDPVSSLENLEEKKFP
GEASIPSPKPKLHARDLKKELITCPTPGCDGSGHVTGNYASHRSVSGCPLADKTLKSLMAANSQELKCPT
PGCDGSGHVTGNYASHRSLSGCPRARKGGVKMTPTKEEKEDPELKCPVIGCDGQGHISGKYTSHRTASGC
PLAAKRQKENPLNGASLSWKLNKQELPHCPLPGCNGLGHVNNVFVTHRSLSGCPLNAQVIKKGKVSEELM
TIKLKATGGIESDEEIRHLDEEIKELNESNLKIEADMMKLQTQITSMESNLKTIEEENKLIEQNNESLLK
ELAGLSQALISSLADIQLPQMGPISEQNFEAYVNTLTDMYSNLERDYSPECKALLESIKQAVKGIHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6680_h12.zip

Restriction Sites: SgfI-MluI

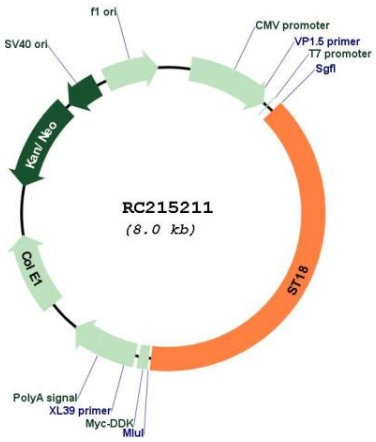
Cloning Scheme:



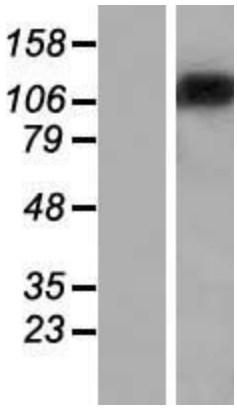
ACCN:	NM_014682
ORF Size:	3141 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014682.2, NP_055497.1
RefSeq Size:	6330 bp
RefSeq ORF:	3144 bp

Locus ID:	9705
UniProt ID:	O60284
Cytogenetics:	8q11.23
Domains:	zf-C2HC
Protein Families:	Transcription Factors
MW:	115.2 kDa
Gene Summary:	Repressor that binds to DNA sequences containing a bipartite element consisting of a direct repeat of the sequence 5'-AAAGTTT-3' separated by 2-9 nucleotides. Represses basal transcription activity from target promoters (By similarity). Inhibits colony formation in cultured breast cancer cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC215211



Western blot validation of overexpression lysate (Cat# [LY415116]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215211 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).