

## Product datasheet for MC223114

### Scaf8 (NM\_134123) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scaf8 (NM_134123) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scaf8
Synonyms:	A630086M08Rik; A930036P18Rik; AA408306; AI447644; AI448652; AU015035; mKIAA1116; Rbm16
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223114 representing NM_134123 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCCGTGAAGACCTTCAACAGCGAGTTGTATTCAGTGAATGACTATAAGCCACCCATTTCTAAAG  
CAAAAATGACCCAAATTACAAAGGCAGCCATCAAAGCTATTAAGTTTTATAAACATGTGGTACAAAGTGT  
TGAGAAATTCATTCAGAAATGTAACCAGAATACAAGGTACCTGGACTATATGTTATTGACTCCATTGTG  
CGACAATCCCGGCATCAGTTTGGTCAAGAAAAGGATGTGTTTGCACCCAGATTTAGTAATAACATCATT  
GCACTTTTCAGAAATTTATATCGTTGCCCTGGGGATGACAAGAGTAAAATAGTGAGAGTATTAACCTATG  
GCAGAAGAATAATGTTTTAAGAGTGAGATTATCCAGCCTCTTCTGGATATGGCGGCAGGGATCCCTCC  
CCAGTTGTACGCCTGTTTTGGCCAGCACCACCTGCAGCTATGAGCAACACTCCAGGAACACCCGTGACAC  
CTGTTACTCCAGCCAATGTGGTCCAAGGCTTACCTGATCCATGGGTATCTCAGATAGCAAACACAGACAC  
ACTGGCAGCTGTTGCTCAGATCCTACAAAGTCTCAAGGTCAACAGCTTCAGCAGCTAATACAAACCTTA  
CAGATACAGCAGCAGAAGCCTCAGCCTTCTATCCTGCAGGCCCTGGATGCTGGTCTTGTGGTTCAAGTAC  
AGGCACTCACTGCACAGCTCACAGCTGCAGCTGCTGCAGCCAACACACTACGCCCTTGGATCAGGGAGT  
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AAGGAAATGCCTACTCCTCAACTCTCAGTTCAGAGTCTGTGAACAACTCCATCTTCCATCAGATAG  
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GGTAACTCCTCAAGATAGCCAGGAGGGGACATTTGGGTCTGAGCACTCAGCTTCTCCCTCACAAGGGAGT  
AGCCAACAGCATTTTCTGGAACCTGAAGCAAATTTAGATGATTCCATAGACATTCAGCAACAGGATATGG  
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GCTCCTACTCCAGTGAGCGCAGAGCCAGGAAAGGGAGAAAGAGCGCCAGAAAAAGGGCTTGCCCTCTGT  
CAGGTCAAAAACACTAAGTGTATGCAGCACTACTCTCTGGTTGGCCAAGTGACAAGAAGGCTACACAG



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CAAGATTTAACCAACCTTTTTGAGGAATTTGGACAAATTGAATCCATTAATATGATTCCACCCAGGGCT  
 GTGCATATGTCTGCATGGTTCATCGACAAGATTCATTTGGGCTCTTCAGAACTGAGTTCAGGATCCTA  
 TAAATTTGGTTCCAAGGTCATTAAGATTGCCTGGGCTTTGAACAAAGGTGTAAAGACAGAATACAAACAG  
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 TGTTAAAGAGCCAGTGCAGACTGCACAGAGTCCAGTCCAGTTGAGAAGGAGTCACTGGTACCACACAG  
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 TGCAGCTTTCATCTCCACCCCGGACCTTTTCTCCAGGAGATCTTTTCACTCAGCCAGAAAGACCT  
 TTTCTGGCCCTGGAAGACCAAGTATAGACAATGTTCCAACCCAGATAAAAAGTAACTTGGGAATG  
 ACAATATTACAGCAGGAAGGGGATAGAGATTACCGCTTTCTCCTATAGAAAACAGGGAGGGCATTACCAG  
 ACCTCCTCAGGTGGATGTTAGGGATGTGGTTGGGCGACGCTAGATCCCAGAGAAGGCCCTGGAAGGCCT  
 CCATTAGATGCTAGGGATCATTTTGAAGACCTCCTGTGGACATGAGGGAGAATCTTGTGAGGCCAAGTC  
 TAGACCACCTTGGTGAAGAGACCACTTTGGCTTTCCCCAGAGAAGCCTTGGGGCCTAGAGATTTTGA  
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 CGGGCTGGAAATTACCGATTTGATCCTAGAAGTGGTCTTGAACAGAGGATTTGGTCAAGAAGTTCACA  
 GAGATTTTGTGACCGCAGAAGACCTGGGAGAGGCAGAGGGATAGGGATGACAGAGATTTGATTTCTG  
 CAGAGAAATTAATGAAATCGTCTTGGACGAGATAGAATCAAAACACTGGGTTCCCCCTCCTCATGCT  
 CGGGTTTTTGATTATTTGAAGGGGCCACTTCTCAACGAAAGGTGATAATGTGCTCAAGTTAATGGTG  
 AAAATACAGAGAGACATGCTCAGCCACCGCTTTACCAGTACAGAAGGACCCTGAACTCTATGAGAACT  
 GGCGTCTTCAGGTGACGTAGACAAGGAGGAGAGCGGCACAGTTGCTGGTGTAGAGAGTGAAGCGGTGGTA  
 GAAAGCACAGAGACTGAGGGGACATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_134123
- Insert Size:** 3807 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_134123.3](#), [NP\\_598884.2](#)

**RefSeq Size:** 4892 bp

**RefSeq ORF:** 3807 bp

**Locus ID:** 106583

**UniProt ID:** [Q6DID3](#)

**Cytogenetics:** 17 A1

**Gene Summary:** Anti-terminator protein required to prevent early mRNA termination during transcription. Together with SCAF4, acts by suppressing the use of early, alternative poly(A) sites, thereby preventing the accumulation of non-functional truncated proteins. Mechanistically, associates with the phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit (POLR2A), and subsequently binds nascent RNA upstream of early polyadenylation sites to prevent premature mRNA transcript cleavage and polyadenylation. Independently of SCAF4, also acts as a positive regulator of transcript elongation. [UniProtKB/Swiss-Prot Function]