

Product datasheet for **RG216844**

SON (NM_138927) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SON
Synonyms:	BASSI; C2lorf50; DBP-5; NREBP; SON3; TOKIMS
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216844 representing NM_138927
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCAACATCGAGCAGATTTTATGGTCTTTCGTGGTCAGTAAATCCGGGAAATTCACAGGAGC
TTTCCAGTGAAGGAATGAAGGCCAGCTGAATGGTGAACAAATACACCCATTGAAGGAAACAGGCGGG
TGATGCAGCTGCCTCTGCCAGGAGTCTACCAATGAAGAAATAGTGCAGAAGATAGAGGAAGTACTTTCT
GGGGTCTTAGATACAGAACTACGATATAAGCCAGACTTGAAAGAGGGCTCCAGAAAAAGTAGATGCGTAT
CTGTACAAACAGATCCTACTGATGAAATCCCACTAAAAAGTCAAAGAAGCATAAAAAGCACAAAAACAA
AAAGAAGAAAAAGAAAGAAAAAGGAAAAAATATAAAGACAGCCAGAAGAATCTGAGTCAAAGACG
AAATCTCATGATGATGGGAACATAGATTTAGAATCTGATTCCTTTTTAAAGTTTGATTCTGAACCTTCAG
CTGTGGCGCTGGAGCTTCTACAAGAGCATTTGGCCCATCTGAGACCAATGAATCCCTGCACTTGTGCT
AGAACCTCCTGTAGTATCAATGGAGGTATCAGAGCCACACATCTTAGAACTCTGAAGCCAGCTACAAAA
ACTGCAGAAGTGTAGTTGATCTACATCAGTAATCTCAGAGCAGTCAGAGCAGTCTGTGGCAGTAATGC
CAGAACCATCCATGACAAAGATTCTGGATTCTTGCAGCAGCAGCAGTGCCTACTACAACACTGGTGTT
GAAGTCATCTGAGCCAGTTGTAACAATGTCAAGTGGAGTATCAGATGAAGTCTGTGCTGAAATCTGTGGAG
AGCACATCTCCAGAGCCATCAAAGATCATGTTGGTAGAGCCCCAGTAGCAAAAGTGTAGAGCCTTCAG
AAACCTTGTGGTATCATCAGAGACACCTACTGAGGTGTACCCTGAGCCAAGCACATCAACAACATGGA
TTTTCCAGAGTCATCTGCAATTGAAGCGCTAAGATTGCCAGAGCAGCCTGTAGAGTACCATCGGAGATT
GCAGATTATCCATGACAAGACCGCAGGAGTTGCCGGAGCTGCCTAAGACCACAGCGTTGGAGCTGCAGG
AGTCGTGCGTGGCCTCAGCGATGGAGTTGCCGGGGCCACCTGCGACCTCCATGCCGGAGTTGCAGGGGCC
CCCTGTGACTCCAGTGCTGGAGTTACCTGGGCCCTCTGCTACCCCGGTGCCAGAGTTGCCAGGGGCCCTT
TCTACCCAGTGCTGAGTTGCCAGGGGCCCTGCGACAGCAGTGCCTGAGTTGCCAGGGGCCCTCTGTGA
CACCAGTGCCACAGTTGTCGAGGAATTGCCAGGGCTTCCAGCACCATCCATGGGGTTGGAGCCACCACA
GGAGGTACCAGAGCCACCTGTGATGGCACAGGAGTTGCCAGGGCTGCCTTTGGTGACAGCAGCAGTAGAG
TTGCCAGAGCAGCTGCGGTAACAGTAGCAATGGAGTTGACCGAACACCTGTGACGACGACAGAGTTGG



AGCAGCCTGTGGGGATGACAACGGTGAACATCCTGGGCATCCTGAGGTGACAACGGCAACAGGGTTGCT
GGGGCAGCCTGAGGCAACGATGGTGTGGAGTTGCCAGGACAGCCAGTGGCAACGACAGCGCTGGAGTTG
CCGGGGCAGCCTTCGGTGACTGGGGTGCCAGAGTTGCCAGGGCTGCCTTCGGCAACTAGGGCACTGGAGT
TGTCCGGGGCAGCCTGTGGCAACTGGGGCACTAGAGTTGCCTGGGCCGCTCATGGCAGCTGGGGCACTGGA
GTTCTCGGGCAGTCTGGGGCAGCTGGAGCACTGGAGCTTTTGGGGCAGCCTCTGGCAACAGGGGTGCTG
GAGTTGCCAGGGCAGCCTGGGGCGCCAGAGTTGCCTGGGCAGCCTGTGGCAACTGTGGCGCTGGAGATCT
CTGTTCACTGTGGTGACAACATCGAGCTGTCAACGATGACCGTGTGCAGTCCCTGGAGGTGCCCTC
GACGACAGCGCTGGAATCCTATAATACGGTAGCACAGGAGCTGCCTACTACATTAGTGGGGGAGACTTCT
GTAACAGTAGGAGTGGATCCCTTGATGGCCCCAGAATCCCATATATTAGCTTCTAACACCATGGAGACCC
ATATATTAGCATCCAACACCATGGACTCCCAATGTAGCGTCCAACACCATGGACTCCCAGATGCTAGC
ATCCAACACCATGGACTCCCAGATGTTAGCGTCTAGCACCATGGACTCCCAGATGTTAGCAACTAGCTCC
ATGGACTCCCAGATGTTAGCAACTAGCTCCATGGACTCCCAGATGTTAGCAACTAGCACTATGGAATAGCA
AGATGTTAGCAACCACTCCATGGACTCCCAGATGTTAGCAACCACTCCATGGACTCCCAGATGTTAGC
AACCAGCTCCATGGACTCCCAGATGTTAGCAACCACTCCATGGACTCCCAGATGTTAGCAACCACTCC
ATGGATTCTCAGATGTTAGCAACCACTCCATGGACTCCCAGATGTTAGCAACTAGCTCAATGGATTCCC
AGATGTTAGCATCTGGCACTATGGACTCTCAATGTTAGCTTCTGGCACCATGGATGCTCAGATGTTAGC
GTCTGGTACCATGGATGCCAGATGTTAGCGTCTAGTACCCAAGATTCTGCTATGTTGGGTTCAAAATCT
CCTGATCCCTATAGGTTAGCTCAGGATCCTTACAGGTTAGCTCAGGATCCCTATAGGTTGGGCCATGACC
CCTATAGATTAGGTCATGATGCTTACAGGTTAGGACAAGACCCTTATAGATTAGGCCATGATCCCTACAG
ACTAATCCTGATCCCTATAGGATGTCACTAGACCCTACAGGATAGCACCCAGGTCTATAGAATTAGCA
CCCAGGCCATATAGGTTAGCACCTAGACCCTGATGTTAGCATCTAGACGTTCTATGATGATGCTCTATG
CTGCAGAACGTTCCATGATGTCATCTTACGAACGCTCTATGATGCTTATGAGCGGTCTATGATGCTCCC
TATGGCTGAACGCTCTATGATGTCAGCCTACGAGCGCTCTATGATGTCAGCCTACGAGCGCTCTATGATG
TCCCCTATGGCTGAGCGCTCTATGATGTCAGCTTATGAACGCTCCATGATGTCAGCTTATGAACGCTCCA
TGATGTCCCAATGGCTGATCGATCTATGATGTCCATGGGTGCTGACCGGTCTATGATGTCGTCACTC
TGCTGCTGACCGGTCTATGATGTATCGTACTCTGCAGCTGACCGATCTATGATGTCATCTTACTGCT
GATCGTTCAATGATGCTATGGCTGCTGATTCTTACACCGATTCTTACACTGACACATATACAGAGGCAT
ATATGGTGCCACCTTTGCCTCCTGAAGAGCCCCAACCAATGCCACCGTTGCCACCTGAGGAGCCACCAAT
GACACCACCATTTGCCTCCTGAGGAACCAACAGAGGGTCCAGCATTGCCCACTGAGCAGTCAGCATTAACA
GCTGAAAATACTTGGCTACAGAGGTGCCATCATCACCATCTGAAGAGTCTGTATCGCAGCTGAGCCTC
CTGTGAGTCAAAGTGAGATTTCCGAGCCTTCAGCAGTGCCTACTGATTATTCAGTGTGAGCATCAGATCC
CTCAGTTTTAGTATCAGAGGCTGCTGTGACTGTTCCAGAACCACCAGAGCCAGAATCTTCAATTACG
TTAACACCTGTAGAGTCTGCAGTAGTAGCAGAAGAATGAAGTTGTTCCAGAGAGACCACTGACTTGTA
TGGTATCTGAAACTCCCGCCATGTCAGTGAACCAACTGTGTTAGCATCAGAGCCTCCTGTTATGTCAGA
GACAGCAGAAACATTTGATTCCATGAGAGCCTCAGGACATGTTGCCTCAGAAGTATCTACATCTTTGTTG
GTTCCAGCAGTAACCTACTCCAGTGCTGGCAGAGAGCATTCTGGAGCCGCCAGCCATGGCTGGCCCAAGT
CTTCAGCTATGGCTGTCTGGAGTCTTCCGCTGTGACCGTCTGGAGTCTTCGACTGTGACTGTCTGGA
GTCTTCGACTGTAAGTGTCTGGAGCCTTCGGTTGTGACTGTCCCGAGCCTCCTGTTGTGGCTGAGCCA
GACTATGTTACCATCTCTGTGCCAGTTGTTTCTGCGCTGGAGCCTTCTGTGCTGTTCTGGAACCACTG
TGTCAGTCTTCAACCTTCTATGATTGTTTCAGAACCATCTGTTTCTGTCCAGGAATCGACTGTGACAGT
TTCAGAGCCTGCTGTACAGTCTCAGAGCAGACTCAAGTAATACCAACTGAGGTGGCTATAGAGTCCACA
CCAATGATACTGGAATCTAGTATCATGTATCATGTTATGAAAGGAATTAATCTATCCTCTGGTGATC
AAAATCTTGCTCCAGAGATTGGCATGCAGGAGATTGCATTGCATTAGGTGAAGAACCACATGCTGAGGA
ACACCTGAAAGGTGACTTTTACGAAAGTGAACATGGTATAAATATAGACCTTAATATAAATAATCATTTA
ATTGCTAAAGAGATGGAACATAATACAGTGTGTGCTGCTGGTACTAGTCTGTTGGGGAAATTGGTGAAG
AGAAAATTTTGGCCACCACTGAGACTAAACAGCGCACAGTATTGGATACCTACCCTGGTGTTAGTGAAGC
TGATGCAGGAGAACTCTATCTTCTACTGGTCTTTTGTCTGGAACCTGATGCAACAGGAAGTGAAG
GGTATTGAATTTACACAGCATCTACTCTCAGTTAGTTAATAAATATGATGTTGATTATCTTTAACTA
CTCAAGATACTGAACATGACATGGTAATTTCCACCAGTCTAGTGGTGGTAGTGAAGCTGACATTGAAGG
GCCTTTGCCTGCTAAAGATATTCATCTTGATTTACCATCTAATAAATACCTTGTTAGTAAGGATACAGAA
GAACCATACCTGTAAGAGAGTGAACAGACATTAGCAGCTCTGCTCAGCCCTAAAGAAAGTAGTGAG
GAGAAAAAGAGTACCTCCCTCCTAAAGAGACACTGCCTGATTGAGATTTTCTGCCAATATTGAGGA
TATTAATGAAGCAGATTTAGTGAGACCGTTACTTCTAAGGACATGGAACGTTCTACAAGCCTTAGAGCT
GGCATTGAAGGACCTTTACTTGCAAGTGATGTTGGACGTGACAGATCTGCTGCCAGCCCGGTTGAAGTA
GTATGCCAGAAAGAGCTTCAGAGTCTTCTCAGAGGAAAAAGATGATTATGAAATTTTGTAAAAGTTAA
GGACACTCACGAAAAAGCAAGAAAAATAAGAACCGTGATAAGGGGGAGAAAGAGAAGAAAGAGACTCT

TCATTAAGATCTCGAAGTAAGCGTTCCAAATCTTCTGAACACAAATCACGCAAGCGTACCAAGTGAATCTC
GTTCTAGGGCAAGAAAGAGATCATCTAAGTCCAAGTCTCATCGCTCTCAGACACGTTACGGTCACGTTT
AAGACGCAGGAGGAGAAGCAGCAGATCAAGATCAAAGTCTAGAGGAAGAAGATCTGTATCAAAGAGAAG
CGCAAAAGATCTCCAAAGCACAGATCCAAGTCTAGGGAAGAAAAAGAAAAAGATCAAGCTCCAGGGATA
ACCGAAAGACAGTTAGAGCTCGAAGTCGAACCCCAAGTCGTCGGAGTCGGAGTCATACTCCAAGTCGTCG
ACGAAGGTCTAGATCTGTGGGTAGAAGAAGGAGCTTTAGCATTTCCCCAAGCCGCCGAGCCGCACCCCC
AGCCGCCGAGCCGCACCCCCAGCCGCCGAGCCGCACCCCCAGCCGCCGAGCCGCACCCCCAGCCGCC
GGAGCCGCACCCCTAGCCGTCTGAGCCGCACCCCAAGCCGCCGAGGAAGATCAAGGTCTGTGGTAAGAAG
ACGAAGCTTCAGTATCTCACCAGTCAGATTAAGGCGATCAAGAACACCCCTTAAGAAGAAGGTTTAGCAGA
TCTCCCATCCGTCGTAAGAGATCCAGGTCTTCTGAACGAGGCGATCACCCAAACGCTCTGACAGATTTGG
ATAAGGCTCAATTACTTGAAATAGCCAAAGCTAATGCAGCTGCCATGTGTGCTAAGGCTGGTGCCCTTT
ACCACCAAACTAAAGCCTGCACCTCCACCTACTATAGAAGAGAAAGTTGCTAAAAAGTCAGGAGGAGCT
ACTATAGAAGAACTAACTGAGAAATGTAACAGATCGCACAGAGTAAAGAAGATGATGATGTAATAGTGA
ATAAACCTCATGTTTCGGATGAAGAGGAAGAAGAACCTCCTTTTATCATCATCCCTTTAACTCAGTGA
ACCCAAACCTATTTTTTTCAATCTGAATATTGCTGCAGCAAAACCACTCCACCAAAAAGCCAGGTAACA
TTAACAAAAGAATTCCCTGTATCATCTGGATCTCAACATCGGAAAAAGAAGCGGATAGTGTATGGAG
AATGGGTTCTGTGGAGAAAAATGGTGAAGAAAACAAAGATGATGATAATGTTTTTCAGCAGCAATTTGCC
CTCAGAGCCTGTGGACATCTCTACAGCAATGAGTGAACGGGCACTTGCTCAGAAAAGACTCAGTGAGAAT
GCATTTGATCTTGAAGCCATGAGCATGTTAAATAGAGCTCAGGAAAGGATTGATGCCCTGGGCTCAGCTGA
ACTCTATTCTGGCCAGTTCACAGGAAGTACAGGAGTACAGGTTTTGACACAAGAACAGTTGGCCAATAC
TGGTGCCCAAGCCTGGATTAAGAGGATCAGTTCTTAAGAGCAGCCCGGTAAGTGGAGGAATGGGAGCC
GTTTTGATGAGAAAAATGGGCTGGAGAGAAGGAGAAGGATTAGGAAAAACAAAGAAGGCAATAAGGAAC
CCATCCTAGTTGATTTTAAGACAGACCGAAAAGGTCTTGTTCAGTAGGAGAAAGAGCAGAAAAGAGGTC
TGGGAACTTCTCTGCTGCAATGAAAGATCTGTCAGGCAACATCCTGTGTCTGCTTTGATGGAGATCTGT
AATAAAGAAGGTGGCAACCACTGAATTTCTATTGGTCCATGATAGTGGCCCTGATCATCGCAACATT
TTCTCTTTAGGGTATTGAGAAATGGAGCCCTTACCAGACCAATTGTATGTTTTCTTGAATAGGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216844 representing NM_138927

Red=Cloning site Green=Tags(s)

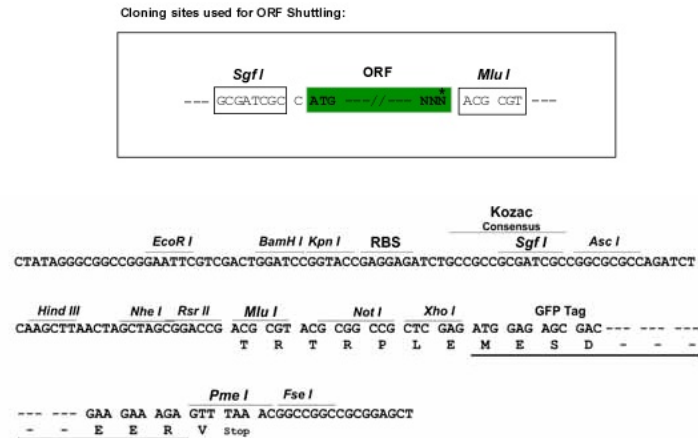
MATNIEQIFRSFVSKFREIQQELSSGRNEGQLNGETNTPIEGNQAGDAAASARSLPNEEIVQKIEEVL
 GVLDTLRYKPDLEKGRKSRCSVQTDPTDEIPTKKSKKKKKKKKKKKKKKEKKYKRPQEESESKT
 KSHDDGNIDLESDFLKFDSEPSVALELPTRAFGPSETNESPAVVLEPPVVSMEVSEPHILETLKPAK
 TAELSVVSTSVISEQSEQSVAVMPEPSMTKILDSFAAPVPTTTLVLKSSEPVVTVMSVEYQMKSVLKSVE
 STSPEPSKIMLVEPPVAKVLEPSETLVVSSETPTEVYEPSTSTTMDFPESSAIEALRLPEQPVDPSEI
 ADSSMTRPQELPELPKTTALELQESSVASAMELPGPATSMPELQGPVTPVLELPGSATPVPELPGPL
 STPVPELPGPATAVPELPGSVTPVPQLSQELPGLPAPSMGLEPPQEVPEPPVMAQELPGLPLVTA
 AVE LPEQPAVTVAMELTEQPVTTTELEQPVGMTTVEHPGHPEVTTATGLLGQPEATMVLELPGQPVATTALEL
 PGQPSVTGVPPELPGPSATRALELSGQPVATGALELPGPLMAAGALEFGQSGAAGALELLGQPLATGVL
 ELPGQPGAPPELPGQPVATVALEISVQSVVTTSELSTMTVSQSLEVPSTTALESYNTVAQELPTTLVGETS
 VTVGVDPMLAPESHILASNTMETHILASNTMDSQMLASNTMDSQMLASNTMDSQMLASNTMDSQMLATSS
 MDSQMLATSSMDSQMLATSTMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATST
 MDSQMLATSTMDSQMLATSSMDSQMLASGTMDSQMLASGTMDAQMLASGTMDAQMLASSTQDSAMLGSKS
 PDPYRLAQDPYRLAQDPYRLGHDPYRLGHDAAYRLGQDPYRLGHDPYRLTPDPYRMSRPYRIAPRSYRIA
 PRPYRLAPRPLMLASRRSMMSYAAERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMS
 SPMAERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMSYERSMMS
 DRSMMSMAADSYTDSYTDYTYEAYMVPPLPPEEPPTMPPLPPEEPPTMPPLPPEEPPEGPALPTEQSALT
 AENTWPTVEPSSPSEESVSQPEPPVSQSEISEPSAVPTDYSVSASDPSVLVSEAAVTVPEPPPESSIT
 LTPVESAVVAEEHVPERPVTCTMVSETPAMSAEPTVLAEPVPMSETAETFDMSRASGHVASEVSTSL
 VPAVTTVPVLAESILEPPAMAPESSAMAVLESSAVTVLESSTVTVLESSTVTVLEPSVTVPEPPVVAEP
 DYVTIPVPVVSALPEPSVPVLEPAVSVLQPSMIVSEPSVSVQESTVTVSEPAVTVSEQTQVIPTVEVAIEST
 PMILESSIMSSHVMKGINLSSGDQNLAPEIGMQEIALHSGEEPHAEHLKGDFYSEHGINIDLINNNHL
 IAKEMEHNVTCAAGTSPVGEIGEEKILPTSETKQRTVLDITYPGVSEADAGETLSSTGPFALPEPDATGTSK
 GIEFTTASTLSLVNKYVDVLSLTQDTEHDMVISTSPSGGSEADIEGLPAKDIHDLPSNNNLVSKDTE
 EPLPVKESDQTLAALLSPKESGGGEKEVPPPKETLPDSGFSANIEDINEADLVRPLLPKDMERLTSRA
 GIEGPLLASDVGRDRSAASPVSSMPERASESSSEEKDDYEIFVKVKDTHEKSKKNKNRDKGEKEKKRDS
 SLRSRKRKSKSEHKSRKRTSESRSRARKRSSKSKSHRSQTRSRSRRRRRSRSRKSRGRRSVSKEK
 RKRSPKHRSKRERKRKRSSSRDNRKTVRARSRTPSRRSRSHTPSRRRSRSVGRRRSFSISPSRRSRTP
 SRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTP
 SPIRRKRSSSERGRSPKRLTDLDKAQLLEIAKANAAAMCAKAGVPLPPNLKPAPPPTIEEKVAKKSGGA
 TIEELTECKQIAQSKEDDDIVNKPVHVSDEEEEPFHYHHPFKLSEPKPIFFNLNIAAAKPTPPKSQVT
 LTKEFPVSSGSQHRKKEADSVYGEWVPVEKNGEENKDDDNVSSNLPSEPVDISTAMSERALAQKRLSEN
 AFDLEAMSLNRAQERIDAWAQLNSIPGQFTGSTGVQVLTQEQALNTGAQAWIKKQFLRAAPVTGGMGA
 VLMRKMGWREGEGLGKNKEGNKEPILVDFKTRKGLVAVGERAQKRSNGFSAAMKDLSGKHPVSALMEIC
 NKRRWQPPEFLLVHDSGPDHRKHFLFRVLRNGALTRPNCMFFLNRY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_138927

ORF Size: 7278 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.

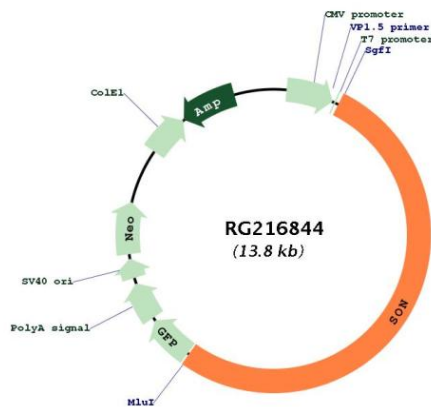
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138927.4](#)

RefSeq Size: 8412 bp

RefSeq ORF:	7281 bp
Locus ID:	6651
UniProt ID:	P18583
Cytogenetics:	21q22.11
Gene Summary:	This gene encodes a protein that contains multiple simple repeats. The encoded protein binds RNA and promotes pre-mRNA splicing, particularly of transcripts with poor splice sites. The protein also recognizes a specific DNA sequence found in the human hepatitis B virus (HBV) and represses HBV core promoter activity. There is a pseudogene for this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG216844