

## Product datasheet for **RG226498**

### LAMA3 (NM\_001127717) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAMA3 (NM_001127717) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LAMA3
Synonyms:	BM600; E170; LAMNA; LOCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226498 representing NM_001127717 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGCGCGCCGCGCGGCTCGGGGTCGGGCACTGGGGCCAGTACTGCCGCCGACGCCGCTGCTCCTGCTGGTACTGCGGGTGTGCCAGCCTGCGGGGCGACCGCTCGGGATCCCGGGGCCGCGCGGGGCTCAGCCTTCACCCGACTTACTTCAACCTGGCCGAGGCGCGAGGATTTGGGCCACCGCCACCTGCGGGGAGAGGGGACCCGCGAGGGGAGGCCAGCCGAGCTCTACTGCAAGTTGGTGGGGGCCACCGCCAGGCAGCGCCACACCATCCAGGGCCAGTTCTGTGACTATTGCAATCTGAAGACCCAGGAAAGCACATCCTGTCACAATGCCATCGATGGATCTGAACGTTGGTGCAAAGCCCTCCCTGTCTCAGGCACACAGTACAACAGAGTCAACCTCACCTTGATCTGGGCAGCTCTTCCATGTGGCTATATTTAATCAAATTTGCAAATTTCTCTCGCCCTGATCTTTGGGTCTTGAAAGATCTGTAGACTTTGGAAGCACCTACTCACCATGGCAATATTTGCTCATTTCTAAAGTAGACTGTTTAAAAGAATTTGGGCGGGAGGCAAATATGGCTGTACCCGGGATGATGATGTACTTTGTGTTACTGAATATTCCTGATTGTACCTTTGGAAAATGGTGAGGTTGTGGTGTCCCTGTAAACGGTCGTCAGGTGCAAAAATTTACTTTCTCTCACACCTGAGGGAGTTTACCAAGGCAACAAACATCCGCTTGCCTTTCTTAGAACCAATACGCTTCTTGGACACCTCATCTCAAAGCCCAGCGAGATCCAATGTCACTCGGCGGTATTATTACAGCATAAAGGACATCAGCATTGGTGGCAGTGTGTTGCAATGGCCATGCTGAAGTGTGCAATATAACAATCCTGAAAACCTGTTTCGGTGTGAATGCCAGCACACACCTGTGGGAGACGTGTGATCGCTGCTGCACAGGGTACAATCAGAGGCGCTGGCGGCCCGCCGCTTGGGAGCAGAGCCAGAGTGTGAAGCATGCAACTGCCACGGCCATGCCAGCAACTGTTACTATGATCCAGATGTTGAGCGGCAGCAGGCAAGCTTGAATACCCAGGGCATCTATGCTGGTGGAGGGTCTGCATTAAGTGTGACGACAACACAGCTGGAGTAACTGTGAACAGTGTGCTAAGGGCTATTACCGCCCTATGGGGTTCAGTGGATGCCCTGATGGCTGCATCCCTGCAGCTGTGACCCTGAGCATGCGGATGGCTGTGAACAGGGTTCAGGCCGCTGCTACTGCAAGCCAAATTTCCAGGAGACAAGTGTGAGAAGTGTGCAATTGGATACTACAATTTCCATTTTCTTGAAGATTTCCATTTTCTGTTTCTACACCAAGTTCAGAAGATCCAGTAGCTGGAGATATAAAGGG



[View online »](#)

TGTGACTGTAATCTGGAAGGTGTTCTCCCTGAAATATGTGATGCCACGGACGGTGCCTGTGCCGCCCTG  
GGTTGAGGGCCCTCGATGTGATACCTGCCGCTCTGGTTTCTACTCATTCCCTATTTGCCAAGCCTGCTG  
GTGTTACAGCCCTTGGATCCTACCAGATGCCCTGCAGCTCAGTGACTGGACAGTGTGAATGTCGGCCAGGA  
GTTACAGGACAGCGGTGTGACAGGTGTCTCTCAGGAGCTTATGATTTCCCCACTGCCAAGGTTCCAGCA  
GTGCTTGTGACCCAGCTGGTACCATCAACTCCAATTTGGGGATTGCCAATGCAAGCTTCATGTTGAAGG  
TCCTACTTGTAGCCGCTGCAAACCTGTTATATTGGAATCTGGACAAAGAAAACCCAGTGGATGTTGAGAA  
TGCAAGTCCCATGAGGCGGGAACAGTGAAGTGGAACTGGAGAGTGTAGGCAGGGAGATGGTACTGCTACT  
GCAAGTCCCATGAGGCGGATTCTGCGACACCTGTGAAGATGGATATTTTGCTTGGAAAAGAGCAA  
TTACTTTGGGTGTCAAGGTGTGAGTGTGACATTGGTGGGGCATTGCTCCTCCATGTGCAAGTGGGCCCTCG  
GGAGTGTGCCAGTGCCGAGAGCATGTCGTGGGAAAGGTGTGCCAGCGGCCTGAAAACAACACTACTATTTCC  
CAGATTTGCATCATATGAAGTATGAGATTGAAGACGGCAGCACACCTAATGGGAGAGACCTTCGATTTGG  
ATTTGATCCGCTGGCATTCTGAGTTTGTGAGAGGATATGCCCAAATGACCTCAGTACAGAATGAT  
GTAAGAATAACATTGAATGTAGGGAAGTCAAGTGGCTCCTTGTTCGTGTTATTCTGAGATACGTTAACC  
CTGGAAGTGAAGCAGTATCTGGCCATATAACTATTTATCCATCCTGGGGTCTGCTCAAAGCAAAGAGAT  
CATCTTCTGCCGAGTAAGGAGCCAGCCTTTGCTACTGTCCTGGAAATGGTTTTGCAGACCCATTTTCA  
ATCACACCAGGAATATGGGTTGCTTGTATTAAGGCAGAAGGAGTCTTCTGGATTACCTGGTGTCTGCC  
CCAGGGACTACTATGAAGCCTCTGACTGCAGCTGCCAGTACAGAACCATGTGCCTACGCAGGACCTCC  
CCAAGAAAATTGCTTACTCTACCAGCATTGTCAGTGACCAGATTCCCCTGTACCCTGGCTTGTGAGGCC  
AGACACTTCTGCTTGTGAGGGAGCCAAGACCCGTGGCAGTGAGGCAGCCACACCTGCACACCCTGTCA  
TGGTGGACCTCAGCGGGAGAGAGGTGGAATTGCATCTGCGGCTGCGCATCCACAGGTTGGCCACTACGT  
GGTTGTGGTTCGAGTATCCACGGAGGCAGCTCAGCTGTTGTGGTTGATGTGAATGTGAAGAGCTCCGGG  
TCTGTTCTGGCAGGCCAGGTGAACATTTACAGCTGCAACTACAGTGTCTCTGCCGGAGTCTGTGATTG  
ATCAGATGAGCCGCATCGCCATGTATGAGCTATTGGCAGATGCAGACATTCAGCTCAAGGGACACATGGC  
CCGATTCCTTCTGCATCAAGTTTGTATCATACCTATTGAAGAATTCTCAGCTGAGTATGTGAGACCACAA  
GTCCACTGCATTGCCAGTTATGGGCGATTGTCAATCAAAGTGCCACCTGTGTCTCCTTGGCCCATGAAA  
CTCCTCCAACAGCATTAAATTTGGATGTTCTAAGTGGCAGGCCTTTCCCTCACCTGCCCCAGCAGTCGTC  
ACCTTCTGTTGATGTTCTTCTGGGGTACCTTGAAGGCACCGCAGAATCAAGTACCCTGAGAGGACGT  
GTACCACACCTGGGCCGATACGTCTTTGTCATCCATTTTTACCAAGCAGCGCACCCGACGTTTCCCGCGC  
AGGTGTCGGTGGATGGCGGGTGGCCACGGGCGAGTCTTCCATGCCTTTTTTGCCCCATGTGCTTGG  
CTGCCGGGATCAAGTATTGCCAAGGCCAGATTGAGTTTGCATCTCAGAGCCTGAAGTGGCCGCAACT  
GTGAAGGTTCCAGAAGGAAAGTCTTGGTTTTGGTCCGTGTTCTAGTGGTGCCTGCAGAAAATATGACT  
ACCAAATACTTCAAAAAAATCCATGGACAAGTACTCGAGTTTATCACCAATTGTGAAAAAACAGCTT  
TTACCTTGACCCCGAGACAGCCTCCAGATTCTGTAAGAATTCGGCCAGGTCCTGGTGGCCTTTTACCAC  
AAGGGCGCCTGCCTTGTGAGTGCCACCCACTGGGGCCACCGGCCCTCACTGCAGCCCTGAGGGTGGGC  
AGTGCCCATGCCAGCCCAACGTGATCGGGCGCAGTGCACCCGCTGTGCAACAGGCCACTACGGATTCCC  
ACGCTGCAAGCCGTGCAGCTGTGGTTCGGCGCCTTTGTGAAGAGATGACGGGGCAGTGCCGCTGCCCTCCC  
CGCACGGTCAGGCCCCAGTGTGAGGTGTGTGAGACACACTCATTACGCTTCCACCCATGGCCGGCTGCG  
AAGGCTGCAACTGTTCCAGGAGGGGCACCATCGAGGCTGCCATGCCGGAGTGTGACCGGGACAGCGGCA  
GTGCAGATGCAAGCCAGAATCACAGGGCGCAGTGTGACCGATGTGCTTCCGGGTTTTACCGCTTCCCT  
GAGTGTGTTCCCTGCAATTGCAACAGAGATGGGACTGAGCCAGGAGTGTGTGACCCAGGGACCGGGGCTT  
GCCTCTGCAAGGAAAATGTAGAAGGCACAGAGTGAATGTGTGTCGAGAAGGCTCATTCCATTTGGACCC  
AGCCAATCTCAAGGGTTGTACCAGCTGTTTCTGTTTTGGAGTAAATAATCAATGTCACAGCTCACATAAG  
CGAAGGACTAAGTTTGTGGATATGCTGGCTGGCACCTGGAGACAGCAGACAGAGTGGACATCCCTGTCT  
CTTTCAACCCAGGACGCAACAGTATGGTGGCGGATCTCCAGGAGCTGCCCGCAACCATCCACAGCGCGTC  
CTGGGTGCGACCCACCTCCTACCTGGGGACAAGGTTTTCTCATATGGTGGTTACCTCACTTACCAAGCC  
AAGTCTTTGGCTTGCCTGGCGACATGGTCTTCTGAAAAGAAGCCGGATGTACAGCTCACTGGTCAGC  
ACATGTCCATCATCTATGAGGAGACAAACACCCACGGCCAGACCGGCTGCATCATGGACGAGTGCACGT  
GGTCGAGGGAACTTTCAGACATGCCAGCAGCCGTGCCCAAGTGTCTAGGGAGGAGCTGATGACAGTGTCT  
TCTAGACTGGCAGATGTGCGCATCCAAGGCTCTACTTACAGAGACTCAAAGGCTCACCCCTGAGCGAGG  
TGGGGCTAGAGGAAGCCTCTGACACAGGAAGTGGGCGCATAGCACTTGTGTGGAATCTGTGCCTGCC  
CCCTGCCTACGCTGGTACTCTTGTGAGGGTGTAGCCCTGGATACTATCGGGATCATAAAGGCTTGTAT  
ACCGGACGGTGTGTTCCCTGCAATTGCAACGGACATTCAAATCAATGCCAGGATGGCTCAGGCATATGTG

TTAAGTGTGAGCACAACACCGCGGGAGAGCACTGTGAACGCTGCCAGGAGGGCTACTATGGCAACGCCGT  
 CCACGGATCCTGCAGGGCCTGCCATGTCTCACACTAACAGCTTTGCCACTGGCTGTGTGGTGAATGGG  
 GGAGACGTGCGGTGCTCCTGCAAAGCTGGGTACACAGGAACACAGTGTGAAAGGTGTGCACCGGGATATT  
 TCGGGAATCCCCAGAAATTCGGAGGTAGCTGCCAACCATGCAGTTGTAACAGCAATGGCCAGCTGGGCAG  
 CTGTCTACCCCTGACTGGAGACTGCATAAACCAAGAACCCAAAGTAGCAGCCCTGCAGAAGAATGTGAT  
 GATTGCGACAGCTGTGTGATGACCCTCCTGAACGACCTGGCCACCATGGGCGAGCAGCTCCGCTGGTCA  
 AGTCTCAGCTGCAGGGCCTGAGTCCAGCGCAGGGCTTCTGGAGCAGATGAGGCACATGGAGACCCAGGC  
 CAAGGACCTGAGGAATCAGTTGCTCAACTACCGTTCTGCCATTTCAAATCATGGATCAAAAAATAGAAGGC  
 CTGAAAAGAGAAGTACTGACTGATTTGAATCAAGAATTTGAGACTTTGCAAGAAAAGGCTCAAGTAAATTCGA  
 GAAAAGCACAACATTAACAACAATGTTAATCGGGCAACACAAAGCGCAAAAAGAACTGGATGTGAAGAT  
 TAAAAATGTATCCGGAATGTGCACATGCTGAACCGGTAAGGACCTGGCAGAAAACCCACCAGGGGGAG  
 AACAAATGGGCTTGCTAACAGTATCCGGATTCTTTAAATGAATACGAAGCCAACTCAGTACCTTCGTG  
 CTCGGCTGCAGGAGGCAGCTGCCAAGCCAAGCAGGCAATGGCTGAACCAAGAAAACGAGAGAGCTTT  
 GGGAGCCATTGAGAGACAAGTGAAGAAAATAAATTCCTGCAGAGTGATTTACCAAGTATCTAACCCT  
 GCAGACTCATCTTTGTTGCAAACCAACATTGCGCTGCAGCTGATGGAGAAAAGCCAGAAGGAATATGAAA  
 AATTAGCTGCCAGTTAAATGAAGCAAGACAAGAACTAAGTGACAAAAGTAAAGAGAAGTTCAGATCTGC  
 TGGCAAAAACATCCCTTGTGGAGGAGGCAGAAAAGCACGCGCGGTCTTACAAGAGCTGGCAAAGCAGCTG  
 GAAGAGATCAAGAGAAAACGCCAGCGGGGATGAGCTGGTGCCTGTGCTGTGGATGCCGCCACCGCTACG  
 AGAACATCCTCAATGCCATCAAAGCGGCGGAGGACGCAGCCAACAGGGCTGCCAGTGCATCTGAATCTGC  
 CCTCCAGACAGTGATAAAGGAAGATCTGCCAAGAAAAGCTAAAACCTGAGTTCACACAGTGATAAACTG  
 TTAATGAAGCCAAGATGACACAAAAGAAGCTAAAGCAAGAAGTCAAGTCCAGCTCTCAACAACTACAGC  
 AAACCTGAATATTGTGACAGTTCAGAAAAGAAGTATAGACACCAATCTCACAACCTCCGAGATGGTCT  
 TCATGGGATACAGAGAGGTGATTTGATGCTATGATCAGTATGATGCAAGAGCATGGTCAAGAGGCAAC  
 GACATCACAGATGAGGTTCTGGATGGGCTCAACCCCATCCAGACAGATGTGAAAAGAATTAAGGACACT  
 ATGGGAGGACACAGAACGAAGACTTCAAAAAGGCTCTGACTGATGCAGATAACTCGGTGAATAAGTTAAC  
 CAACAACTACCTGATCTTTGGCGCAAGATTGAAAGTATCAACCAACAGCTGTTGCCCTTGGGAAACATC  
 TCTGACAACATGGACAGAATACGAGAATAATTCAGCAGGCCAGAGATGCTGCCAGTAAGGTTGCTGTCC  
 CCATGAGGTTCAATGGTAAATCTGGAGTGAAGTCCGACTGCCAATGACCTGGAAGATTGAAAGGATA  
 TACATCTCTGCTTGTCTTCTCAAAGGCCCAACTCAAGAGAAAATGGGGTACTGAGAATATGTTTGTG  
 ATGTACCTTGAAATAAAGATGCCTCCCGGACTACATCGGCATGGCAGTTGTGGATGGCCAGCTACCT  
 GTGTCTACAACCTGGGGGACCGTGAAGTGAACCTCAAGTGGACCAGATCTTGACCAAGAGTGAGACTAA  
 GGAGGCAGTTATGGATCGGGTGAATTTTCAAGAAATTTATCAGTTTGCAAGGCTTAATTACACCAAGGA  
 GCCACATCCAGTAAACCAGAAAACCCCGAGTCTATGACATGGATGGTAGAAATAGCAATACACTCCTTA  
 ATTTGGATCCTGAAAATGTTGATTTTATGTTGGAGGTTACCCACCTGATTTTAACTTCCCAGTCGACT  
 AAGTTTCCCTCCATACAAGGTTGTATTGAATTAGATGACCTCAATGAAAATGTTCTGAGCTTGTAAC  
 TTCAAAAAAACATTCAATCTCAACACAAGTGAAGTGGAGCCTTGTAGAAGGAGGAAGGAAGAGTCAAGCA  
 AAAATTTTGAAGGTACGGGCTATGCTCGAGTTCCAACCAACCATGCTCCCATCCCAACCTTTGG  
 ACAGACAATTGAGACCACCGTGGATAGAGGCTTGTCTTCTTGCAGAAAACGGGGATCGCTTCATATCT  
 CTAATATAGAAGATGGCAAGCTCATGGTGAATACAACTGAATTCAGAGCTACCAAAAAGAGAGAGGAG  
 TTGGAGACGCCATAAACACGGCAGAGACCATTCGATTACAGTCAAAAATGGAAAACCTCAAAAAGGAT  
 GTGGATAAATGTGGACGTTCAAAACACTATAATTGATGGTGAAGTATTTGATTTACGACATATTATCTG  
 GGAGGAATCCAATTGCAATCAGGGAAAGATTTAACATTTCTACGCTGCTTTCCGAGGCTGCATGAAAA  
 ATTTGAAGAAAACAGTGGTGTGCTTAGATTGAATGATACTGTGGGAGTAACCAAAAAGTCTCGGAAGA  
 CTGGAAGCTTGTGCGATCTGCCTCATTCTCCAGAGGAGGACAATTGAGTTTCACTGATTTGGGCTTACCA  
 CCTACTGACCACCTCCAGGCTCATTGGATTTGAGACCTTTCAACCCAGTGGCATATTATTAGATCATC  
 AGACATGGACAAGAACCTGCAGGTCACTCTGGAAGATGGTTACATTGAATTGAGCACCAGCGATAGCGG  
 CAGCCCAATTTTAAATCTCCACAGACGTATATGGATGGTTACTGCATTATGTATCTGTAATAAGCGAC  
 AACTCTGGACTACGGCTTCTCATCGATGACCAGCTTCTGAGAAAATAGCAAAAAGGCTAAAACACATTTCAA  
 GTTCCCGGAGTCTCTGCGTCTGGGCGGGAGCAATTTGAGGGTGTATTAGCAATGTTTTGTCCAGAG  
 GTTATCACTGAGTCTGAAGTCTAGATTTGACCAGTAACTCTCTCAAGAGAGATGTGTCCCTGGGAGGC  
 TGCAGTTTAAACAACACCTTTTCTAATGTTGCTTAAAGGTTCTACCAGGTTTAAACAAGACCAAGACTT  
 TTCGATCAACACAGCTGTTGCAGGACACACCAGTGGCCTCCCAAGGAGCGTGAAGGTGTGGCAAGATGC

```

TTGCTCACCACCTCCCAAGACCCAGGCCAATCATGGAGCCCTCCAGTTTGGGGACATTCCCACCAGCCAC
TTGCTATTCAAGCTTCTCAGGAGCTGCTGAAACCCAGGTCACAGTTTGTGTGGACATGCAGACAACAT
CCTCCAGAGGACTGGTGTTCACACGGGCACTAAGAACTCTTTATGGCTCTTTATCTTTCAAAGGACG
TCTGGTCTTTGCACTGGGGACAGATGGGAAAAATTGAGGATCAAAGCAAGGAGAAATGCAATGATGGG
AAATGGCACACGGTGGTGTGGCCATGATGGGAAAAGGGGCGCTTGGTTGTGGATGGACTGAGGGCCC
GGGAGGGAAGTTGCCTGAAACTCCACCATCAGCATCAGAGCGCCAGTTTACCTGGGATCACCTCCATC
AGGGAACCAAGAGCCCTCCCACAAACAGCTTTGTGGGATGCCTGAAGAACTTTACCTGGATTCAAAA
CCCTTGTATACCCCTTCTCAAGCTTCGGGGTGTCTTCTGCTTGGGTGGTCTTTGGAGAAAGGCATTT
ATTTCTCTGAAGAAGGAGGTCATGTCGTCTTGGCTCACTCTGTATTGTTGGGGCCAGAATTAAGCTTGT
TTTCAGCATCCGCCCAAGAAGTCTCACTGGGATCCTAATACACATCGGAAGTCAGCCCGGAAGCACTTA
TGTGTTTACCTGGAGGCAGGAAAGGTCACGGCCTCTATGGACAGTGGGCGAGTGGGACCTCAACGTCGG
TCACACCAAGCAGTCTCTGTGTGATGGACAGTGGCACTCGTGGCAGTCACCATAAAACAACACATCT
GCACCTGAACTGGACACAGACAGTAGCTACACAGCTGGACAGATCCCCTTCCCACCTGCCAGCACTCAA
GAGCCACTACACCTTGGAGGTGCTCCAGCCAATTTGACGACACTGAGGATCCCTGTGTGAAATCATTCT
TTGGCTGTCTGAGGAATATTCATGTCAATCACATCCCTGTCCCTGCTCACTGAAGCCTTGAAGTCCAGGG
GCCTGTCACTGTAATGGTTGCTCTGACCAG
    
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226498 representing NM\_001127717  
 Red=Cloning site Green=Tags(s)

```

MAAAARPRGRALGPVLPPTPLLLLVLRLVPACGATARDPGAAAGLSLHPTYFNLAEAAARIWATATCGERG
PGEGRPQPELYCKLVGGPTAPGSGHTIQGQFCDYCNSEDPKHAHPTVNAIDGSEWRWQSPPLSSGTQYNR
VNLTLDLGQLFHVAYILIKFANSPRDLWVLSVDFGSTYSPWQYFAHSKVDCLKEFGREANMAVTRDD
DVL CVTEYSRIVPLENGEVVVS LINGRPGAKNFTFSHTLREFTKATNIRLRLRTNTLLGHLISKAQRDP
TVTRYYYYSIKDISIGGCVCNGHAEVCNINNPEKLFRCCEQHHTCGETCDRCCTGYNQRRWRPAAEQS
HECEACNCHGHASNCYYPDVERQQASLNTQGIYAGGGVCINCQHNTAGVNCEQCAKGYRYPYGVVDPAD
DGCIPSCDPEHADGCEQSGRCHCKPNFHGDNCEKCAIGYNNFPFLRIPFIPVSTPSSDDPVAGDIKG
CDCNLEGLVLEICDAHGRCLCRPGVEGPRCDTCSRSGYFPIQCQACWCSALGYSQMPCCSSVTGQCECRPG
VTGQRCDRCLSGAYDFPHCQSSSACDPAGTINSNLGYCQCKLHVEGPTCSRCKLLYWNLDKENPSGCSE
CKCHKAGTVSGTGEQRQGDGDCHCKSHVGGSDCTCEDGYFALEKSNYFCGQCQCDIGGALSSMCSGPS
GVCQCREHVVGKVCQRPENNYFDPDLHMKYEIEDGSTPNRDLRFDFDLAFPEFSWRGYAQMTSVQND
VRITLNVGKSSGSLFRVILRYVNPGEAVSGHITIYPSWGAASKEIIFLPSKEPAFVTPVGNFADPFS
ITPGIWWACIKAEGVLLDYL VLLPRDYEASV LQLPVTEPCAYAGPPQENCLLYQHLPVTRFPCTLACEA
RHFLLDGEPRPVAVRQPTPAHPVMVDL SGREVELHLRLRIPQVGHYVVVVEYSTAAQLFVVDVNVKSSG
SVLAGQVNIYSCNYSVLCRSAVIDHMSRIAMYELLADADIQLKGHMARFLLHQVCIIPIEEFSAEYVRPQ
VHCIASYGRFVNQSATCVSLAHETPPTALILDVLSGRPFPHLPQQSSPSVDVLPVTLKAPQNVTLRGR
VPHLGRYVFIHFYQAAHPTFPAQVSVDDGGWPRAFSFASFCPHVLGCRDQVIAEQIEFDISEPEVAAT
YKVPPEGKSLVLRVLPVPAENYDQILHKKSMDSLEFITNCGKNSFYLDPQTASRFCKNSARSLVAFYH
KGALPCECHPTGATGPHCSPEGQCPCQPNVIGRQCTRCATGHYGFPRCKPCSCGRRLCEEMTGQCRCPP
RTVRPQCEVCETHSFSFHPMAGCEGCNCSRRGTIEAMPECDRDSGQCRCRKPITGRQCDCRCSGFYRFP
ECVPCNCRDGTGEPGCDPPTGACLCKENVEGTECNVCREGSFHLDPANLKGCTSCFCFGVNNQCHSSHK
RRTKFDVMLGWHLETADRVDIPVSFNPGSNMVA DLQELPATIHSASWVAPT SYLGDKVSSYGGYLYTQA
KSFGLPGDMVLLLEKKPDVQLTGQHMSIIYEETNTPRPDRLHHGRVHVVEGNFRHASRRAVPSREELMTVL
SRLADVRIQGLYFETETQRLTSEVGLLEEASDTGSGRIALAVEICACPPAYAGDSCQGCSPGYRDHKG LY
TGRCPVCNCGHNSQCQDGSIGICVNCQHNTAGEHCERCQEGYGNVAVHGSCRACPCPHTNSFATGCVVNG
GDVRCSCKAGYTGQCECAPGYFGNPQKFGGSCQPCSCNSNGQLGSCHPLTGDCINQEPKDSSPAEECD
DCDSCVMTLLNDLATMGEQLRLVKSQQLSASAGLLEQMRHMETQAKDLRNQLLNYSIAISNHGSKIEG
LERELTDLNQEFETLQEKAQVNSRKAQTLNANNVNRATQSAKELDVKIKNVIRNVHMLNRI RTWQKTHQGE
NNGLANIRSLSNEYAKLSDLRRLQEAQAQAKQANGLNQENERALGAIQRQVKEINLSQSDFTKYLTT
ADSSLLQTNIALQLMEKSQKEYEKLAASLNEARQELSDKVRELRSAGKTSLVVEAEKHARSLQELAKQL
EEIKRNASGDELVRCAVDAATAYENILNAIKAAEDAANRAASASESALQTVIKEDLPRKAKTSSNSDKL
    
```

LNEAKMTQKKLKQEVSPALNNLQQTNLNIVTVQKEVIDTNLTTLRDGLHGIQRGDIAMISSAKSMVRKAN  
 DITDEVL DGLNPIQT DVERIKD TYGR TQNE DFKKAL TDADNSVNKL TNKLPDLWRKIESINQQLPLGNI  
 SDNMDRIELIQQARDAASKVAVPMRFNGKSGVEVRLPNDLEDLKGYSLSLFLQRPNSRENGGTENMFV  
 MYLGNKDASRDYIGMAVVDGQLTCVYNLGDREAELQVDQILTKSETKEAVMDRVKFQRIYQFARLNYTKG  
 ATSSKPE TPGVYDMDGRNSNTLLNLDPENVVVYVGGYPPDFKLP SRLSFPYKGCIELDDL NENVLSLYN  
 FKKT FNLTTEVEPCRRRKEESDKNYFEGTGYARVPTQPHAPIPTFGQTIQT TVDRGLLFFAENGDRFIS  
 LNI EDGKLMVRYKLNSELPKERGVGDA INNGRDHSIQIKIGKLQKRMWINVDVQNTIIDGEVDFSTYYL  
 GGIPAIIRERFNI STPAFRGCMKNL KKTSGVVRLNDTVGVTKKCEDWKL VRSASF SRGGQLSFTDLGLP  
 PTDHLQASFGFTFP SGI LLDHQ TWTRNLQVTLEDGYIELSTSDSGSPIFKSPQTYMDGLLHYVSVISD  
 NSGLRLL IDQLLRNSKRLKHIS SRQSLRLGGSNFEGCISNVFVQRLSL SPEVLDLTSNSLKR DVSLGG  
 CSLNKPPFLMLLK GSTRFNKTKTFRINQLLQDTPVASPRSVK VWDACSPLPKTQ ANHGALQFGDIPTSH  
 LLFKLPQELLKPRSQFAVDMQTTSSRGLVFHTGTKNSFMALYLSKGR L VFALGTDGKKLR IKSKEK CNDG  
 KWH TVVFGHDGEGRLVVDGLRAREGSLPGNSTISIRAPVYLGSPPSGKPKSLPTNSFVGLKNFQLDSK  
 PLYTPSSSFGVSSCLGGPLEKGIYFSEEGGHVLAHSVLLGPEFKLVFSIRPRSLTGILIHIGSQPKHL  
 CVYLEAGKVTASMDSGAGGTSTSVTPKQSLCDGQWHSVAVTIKQHILHLELDTDSYTAGQIPFPASTQ  
 EPLHLGGAPANL TTRIPVWKSFFGCLRN IHNH IVPVTEALEVQGPVSLNGCPDQ

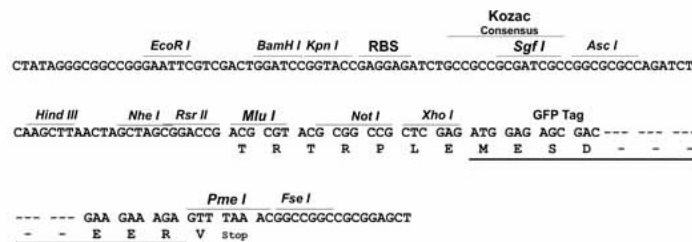
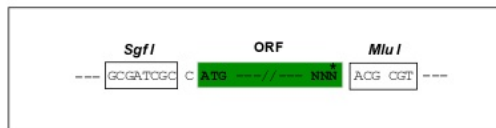
TRTRPLE - GFP Tag - V

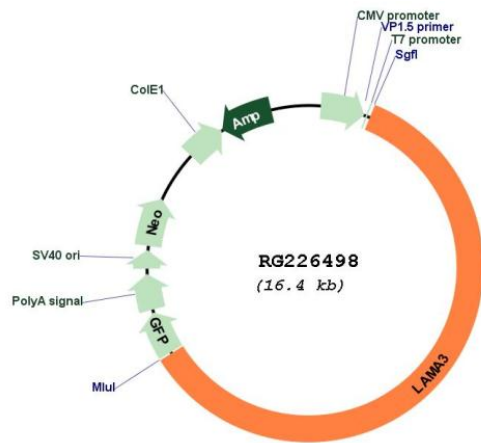
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_001127717

**ORF Size:** 9831 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001127717.1, NP_001121189.1</u>
<b>RefSeq Size:</b>	10343 bp
<b>RefSeq ORF:</b>	9834 bp
<b>Locus ID:</b>	3909
<b>UniProt ID:</b>	<u>Q16787</u>
<b>Cytogenetics:</b>	18q11.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the laminin family of secreted molecules. Laminins are heterotrimeric molecules that consist of alpha, beta, and gamma subunits that assemble through a coiled-coil domain. Laminins are essential for formation and function of the basement membrane and have additional functions in regulating cell migration and mechanical signal transduction. This gene encodes an alpha subunit and is responsive to several epithelial-mesenchymal regulators including keratinocyte growth factor, epidermal growth factor and insulin-like growth factor. Mutations in this gene have been identified as the cause of Herlitz type junctional epidermolysis bullosa and laryngoonychocutaneous syndrome. Alternative splicing and alternative promoter usage result in multiple transcript variants. [provided by RefSeq, Dec 2014]</p>