

Product datasheet for **RG235411**

STARD9 (NM_020759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STARD9 (NM_020759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STARD9
Synonyms:	KIF16A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235411 representing NM_020759 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACGTGCAGGTCGCCGTGCGGGTCCGGCCGCTCAGCAAGAGGGAGACCAAGAAGGGGAAGAA
TTATTGTGGAAGTTGATGGCAAAGTGGCAAAAATCAGGAATTTAAAGGTGGACAATCGACCAGATGGCTT
TGGGGACTCCCGGGAGAAGGTTATGGCATTGGCTTTGATTACTGCTACTGGTCAGTCAACCCAGAGGAT
CCCCAGTATGCATCTCAAGATGTGGTTTTCCAGGATTTAGGGATGGAAGTACTGTCTGGAGTTGCCAAAG
GCTATAACATATGCCTTTTTGCTTATGGACAGACAGGCTCTGGGAAGACATATACCATGTGGGGACCCC
AGCCTCTGTTGGGTTGACACCACGGATATGTGAGGGTCTCTTCGTCAGGGAGAAAGACTGTGCCTCACTG
CCTTCCTCCTGTAGGATAAAAGTAAGTTTTCTAGAAATCTATAATGAACGGGTGCGGGATCTGTTGAAGC
AATCTGGTCAAAAAAGTCCATACCCCTGCGGGTCAAGGAGCATCCAGAGATGGGGCCCTATGTACAAGG
TTTATCTCAACATGTAGTTACCAATTATAAGCAAGTAATCCAACCTTTGGAGGAGGGAAATGCAACAGA
ATCACAGCAGCCACCCATGTTTCATGAGGCCAGCAGCAGATCCCACGCCATTTTCAGATCCACTACACGC
AGGCAATCCTGGAGAACAACCTCCCTTCTGAAATGGCTAGCAAGTCAACCTTGTTGACCTAGCAGGCAG
CGAAAGAGCAGATCCCAGTTACTGTAAGGACCGCATTGCTGAAGGAGCCAATATCAACAAGTCCCTTGTG
ACTCTAGGAATTGTCATCTCCACCTTAGCCAGAACTCCCAAGTTTTTCAGCAGCTGCCAGAGCCTCAACA
GCTCAGTCAGCAATGGTGGTGACAGTGGGATCCTTAGCTCTCCTTCTGGGACCAGCAGTGGAGGGGCACC
CTCCCGAAGGCAGTCTTATATCCCATACCGAGACTCTGTGTTGACCTGGCTGCTGAAGGACAGCCTTGGA
GGCAACTCTAAAACCATCATGGTTGCCACGGTGTCTCCTGCACACTAGCTACAGTGAGACCATGAGCA
CACTGAGATATGCATCCAGTGCCAAAAACATTATCAACAAGCCACGAGTAAATGAGGATGCAAACTTAAA
ACTGATTAGAGAACTCAGAGAAGAGATTGAAAGACTGAAAGCCCTGCTGCTGAGCTTTGAACTGAGAAAC
TTCAGTTCATTGAGTGATGAAAACCTGAAGGAGCTGGTTCTCCAAAATGAATTGAAGATAGACCAGCTGA
CTAAAGACTGGACCCAGAAGTGAATGATTGGCAGGCCCTCATGGAGCATTACAGTGTGGACATCAACAG
GAGGAGGGCTGGGGTGGTCATCGACTCCAGCCTGCCACACTTGATGGCCTTGAGGATGATGTGCTCAGC



[View online »](#)

ACAGGTGTTGTGCTCTATCATCTCAAGGAAGGGACAACAAAAATAGGAAGGATTGACTCAGACCAGGAAC
AGGACATTGTCCTGCAGGGTCAGTGGATTGAGAGAGACCACTGCACTATCACCAGTGCCTGTGGTGTAGT
TGTTCTACGACCTGCCCGTGGGGCCCGCTGTACAGTCAATGGCCGGGAGGTCACTGCCTCCTGCCGCTG
ACTCAAGGAGCTGCATAACCCCTGGGAAGGCACAGAAGTTCCGATTCAACCACCCAGCAGAGGCTGCTG
TCCTGCCGACGGAAGGCAGGTTGGAGAGGCTGCTGCTGGTCTGGTCTGTTGGAGTGGCTGGATTTGGA
TGGAGATCTCGCTGCCTCCCGCTGGGTCTCTCCCTTTGCTTTGGAAGGAAAGGAGAGCGCTTGAAGAG
CAATGTGACGAGGACCATCAGACACCCAGGGATGGAGAGACATCCACAGGGCCAGATTCCAGCAGCAG
AGAGCTACGTAGAGGATTTGAGGCATCAAATCCTAGCAGAAGAGATTCCGAGCTGCCAAGGAACTGGAATT
TGACCAAGCTTGATTAGCCAGCAGATTAAGAAAACCCAGCAGTGTCTGCTCAGAGAAGAGACCTGGCTG
GCCAGCTTGCAACAGCAGCAGCAAGAAGACCAGGTAGCAGAGAAAAGAACTTGAGGCATCTGTGGCACTTG
ATGCTTGGCTTCCAGCAGATCCTGAGATTCAGCCATCCCCATTTGTCAAAGTCAGAAAAGGGTGGTGCA
CCTGCAGCTCCTGCGGAGACACTCTTCGGGCAGCAGAGCGAATGTCCGGCGGAAAAAGGTCTCATTTC
CAGCTAGAGAGAAATCATAAAAAGCAGAGGCTGCTGGAGGCCAGAAGAGACTGGAGAAGCTCACGACAT
TGTGCTGGCTCCAGGATGACAGCACCCAGGAGCCCCATACCAGGTCCTCAGCCCTGATGCCACAGTCCC
ACGGCCTCCATGTAGAAGCAAATGACGAGTTGCAGTTCTTTGAGCCCCAAAGACTCTGCAGCAAGCAC
ATGCCCCAGCTACACAGCATTTTCTAAGTTGGGATCCCTCTACCACATTGCCACCTAGGCCTGACCCTA
CACACCAAACATCAGAGAAAACATCATCAGAAGAGCATTGCCACAGGCTGCTTCTACCCTGCAAGGAC
AGGGTGCCTCCGCAAGAACGGCCTGCATTCCTCAGGTCATGGGCAGCCCTGCACAGCCAGAGCAGCCTTG
GCCAGGAAGGGAGCCTCAGCTCCAGACGCTTGCCTCACCATGAGTCCCAACTCTGTTGGCATCCAGGAAA
TGGAGATGGGGTTAAGCAGCCCATCAGATGGTGGCCAGGGCTTAGCATCTCTGAGGAAATCAGCTAA
CAAATAAGCCAAGGCATGAGCCAAAGATCTTCACTTACTACCCAGACCAGAGGGCGAAGGGACTA
GCAGACCCTAGCCACACACAAGCTGGGTGGCGAAAAGAAGGGAACCTTGGGACCCACAAGGCTCAAGG
GAGCCAGTTGCAATTCCTGTATCTCATGGACCCAGGCAGACTGCTGGGCACGGAAGGAGCAGTCAAGC
TTTTTGGACAGAATACAACCACCTTCTCAAGCAGGGCATCAAAAAGGCATCAGAGGGTTCTGGCAACT
AGGGTCAGAAATATTACAAAAAGTCTCTCACTTGCCTCTTGGCAGTCCTTGAAGAGACAACAAAATA
CAAGGGACCCAGACACCATGGTCCCACTCACAGATTTAGCCAGTAATGGATCATTCAAGAGAAAAAGA
CAATGATTTATCTGACACAGATAGCAACTACTCATTGGATTCTCTCATGTGTCTATGCCAAAGCCCTG
ATAGAGCCACTGAAGCCAGAGGAGAGGAAATGGGATTTCCAGAGCCAGAGAACTCTGAAAGTGATGACA
GCCAATATCTGAGGACTCACTGGCTGAGAAGAGGTACCAAAGCCCCAAAAACAGGCTAGGGGGCAATCG
TCCCACCAACAACCGTGGCCAACCCAGGACCAGAAGTACTGAGCTTCTGTGAGGGGCTTCACTGCAGCCTCA
GACAGTGACCTACTTGTCAAATCATAGGAGCTTCTCCTTGGATAGCCTGATTGATGCAGAGGAAGAAC
TGGGGGAAGATCAGCAAGAAGAACCTTTCCCTGGTTGAGTGCAGGATACCCACAGAGACTTTTTGGCA
CCTGGAGGACTCTAGTCTGCCTGTAATGGACCAAGAGGCAATATGCAGGCTTGGTCCCATCAACTACAGA
ACAGCAGCTAGGCTGGATGCCGTCCTGCCAATGAGCAGTTCGTTTTACCTTGATCCTCAGTTCACCCCC
ATTGTGAGCTCCAACCCATTGTGAGCTCCAACCCATTGTGAGCTCCAGCCCCATTGTGAGCAGGCTGA
ATCACAGGTAGAGCCAAGCTACTCTGAACAAGCCGACTCTCTCAAGGCATGCAGCTTCAAGAGAGAGC
CCACTGATGTCCATGGATTCTGGTTTTCTGTGACTTAAGATCAACCCAGCAGCCCCCAGGAATAG
TGGTTCTTTATGTCCAAGTCTGATATGCAGGAATTTCACTCCTGTAAGGGGGAGAGCCCTGGATACTG
GCCAAATACTGAGGAATAAAGCCATCAGATGCAGAAACGGTTCTGCCATATAGCTCAAACCTGCCAA
GGCAGTACTGAGTCTCTGCAAGTGAAGAGATGAGCACACAGCCTCTGCTGCTGATACGCTAGGCTGT
CTCTCTGGGAATTCAAAGGCTTATTCAACCAGGAGCTGATGGCACCTTTAGGGCAGATGTATCCCTGA
CATGACCCAGCAGGGCAGCTCTGAAGCATCCCACAATTCTAGCGTATCAAACGTGCTGGCTGCCTGCTGCC
ACCACCTTGACTCATGTAGGCAGCACCCATGAAAGGGATTGGTCTGCCCTTACGAGAAGTACCTCCTTG
AACTCTCTTGTCTGTTTTGGAGGCCATAGGAGCACCAAGCCAGCTTACCCTACCTTGAGGAAGACTC
TGGTCCCTGGCCAAGCTTAGCAAAGGAGGAGATACTCTATTGCCAGTTGGCCCTAGGGTATCTAGC
AATCTGAATCTCAACAATTTCCAGTCCATCTGTCCAGAATCAGGCGTTTGGGGCAGAGAAAGAACAGG
ACAGTTTAAATGCCAAATTAAGAAGTGTTCAGATTTCTTTAGCACTAGTGAGAAAGAGGCGAGTTATGA
CGAAACTTATTCGGCAGACTTAGAATCATTGTCTGCTTCTCGATCTACAATGCACAGGCTTTGCAACA
GAGAACCGGATACCAGATTCATGACAGAAGCATGTGAAGTCAAGCAGAACTTGAAGAATGCCTTC
AGAGTTGACAGAAACCTGGACTGATGACTTCTCTGATGAGGATTTTTCCAGAAGAAGCCTTGTACAG
TAATGTCACTACAGCCACCAAGCAGACCATTTGGTCCCAAGGCTGGGCTCCTCTCAGGAAAAATAGTGCA
GTCCAGCCAGGGCAATTAAGTCCCGACAGCCACTACCCACTAGAGGAAGAGAAGACAGATTGCCAGGAGA

GCTCTAAGGAAGCAGTTAGAAGACATAAATGTTTCCTTTGCCCTTCCTTCAGGTCCAGAGCTATACCT
TCACTCTGCTCCCTGGAATCCATTGTCATCTTCCCTGCAGCCCCACTCTTGAAACATTCTATGTGACC
AAAAGCAGGGATGCCCTGACAGAACTGCCTTAGAGATTCCAGCTTGAGAGAAAGTAAGGGTACCCTCCC
CACCCCCAGGGAAGCCTGGGGCTTTGGTCACAACCACCAAGCTCTCAAGGTGCTTATTTGAAGAATAA
TTTGCCAGTGTGTTACAAAACCAGAATTCTAAGATTGCCTCATCTCAGCAGGTACAGCTGAGATACCA
GTTGATCTGAATACCAGGGAAGTCATCAGAGAATCAGGTAATGCCCTGGAATATTACAGAAGAAAGCC
ATGATTCAGTTTATTCTTCTGTACTCAGAACAGACATTTTCTCCCCTCACCAGCACAAAAGTATGTGA
ATTTGAAAACCAAGTTGTAAATTTAAATAAAAAACACAGTTTTCCAGCACTTGAGGGAGGAGAGGTCAT
GCTCAGTCTGTTGCGGTGCTTCCCTCAGACAGCACTGAGTCTGGGAAGTCTCTCCTCTTTCTGTAATCTG
AGGCACGAGAGGAAGAAGAGCTGGATCAGAATACGGTTCTGAGGCAGACCATCAATGTAAGCCTTGAGAA
AGACATGCCAGGGGAAAGTGTGTTTCTTTGAAATCCAGATCAGTAGATCGTAGAGTAAGCAGCCCAGTG
ATGGTGGCCAGGGTGGTGGCCAAACCCTAAGTGGGAAGGGAATAAATAACTGGGCTTCTTGAATAAG
GTCTTCGTCACAAAGATAGCTCAGAAGAGTTAAGCTTCCAGGTACAAGCCTGCATATGAAAGGTTCCA
GTTAGTTGCATGCCCTCAGGAAAGAAACCCAGTGAATGCAAGTACAAGAAATGTTAAATCCCAACAGA
GAACCTTCTGAAAGAAACAGAATAAAAGAGTTAATAACTGATGAAATGGCTAGGCTAATTAGGAGTG
TAATGCAGCTGGAATGGCATCTTAGAAATGAATCTAAGCAGAATAAGCAGGTTATGCTTCCCACAC
ACCAGGAACCGATAAGGAGTTGGTGTCCAGGACCAGAAGGAGCAGGAGAAAGACTGACCATGCCTTAGG
CCAGACAGCTCTGAAACCCCTTGGCCCTAAGGATCAGCCATCTTCTCCAAGACAGACAGATGATACTG
TCTTTAGGGATAGTGAAGCTGGAGCGATGGAGGTTAACAGCATTGGGAACCATCCCAGGTCCAGAAAAT
CACCCAAACCCCTTCAAGTCAAGGGAAGGTGTACGAGAGAGTGAACCTGTGAGAGAGCACACCCACCCA
GCTGGATCGGACAGACCTGCCAGGGATATTTGTGATTCTTTAGGGAAACACAACTTGCAGAGAGTTCA
CCAACACTTCTCTTACCACAGAGAATAAAGCATTGGCTAGAGCTCTGCCATTGCAACCCAGGCTAGA
GAGGCTTCTAAGAATAATGGCCAGTTTGTAAAAGCATCAGCAAGTCTCAAAGGGCAGCCTTGGGGCTTA
GGAAGTCTTGAGGAATTGAGACTGTGAAAGGTTTTTCCAGGAAAGCCAAGTGAAGTGAAGTAAAGT
CCAACCAAGAAGAGCCAAAAGCTCAAGGTAAGTGAAGAAATGCCTATGCAAAGGGGAGGCAGCCTTCA
GGAAGAAAATAAAGTGACTCAGAAATTTCTAGTCTCAGCCAGCTTTGTAGGGACACGTTTTTTCAGGCAG
GAAACTGTGAGCCATTACTAAGCCGGACAGAATTCTGTACAGCTCCTTCCACCAAGACCTGAGTAATA
CCTTGGCCTTGAATTCTCCAAGGTGGCCAAAGAAGGTGTCTTATGTACCTGTTGCTCTAGGCATCTCTC
ACTTGACTGTGTGCTGGATCTCACAATGTTGAAAATTCATAACAGTCCCTGGTAACTGGAGTAGAGCAT
CAGGACCAGAGTACGGAGACCAGAAGCCACAGCCCCGAAGGAAATGTTAGAGGGCGTTCTCTGAGGCAC
ACACTGCCTGGTGTGGTCTGTGCGATCCATGGCCATGGGATCTCATAGTCAATCTGGTGTACCAGAGAG
CATTCTCTGGGGACAGAGGACAGGATCTCAGCAAGCACCAGCCCCAAGACCATGGAAAGGACCTCAGA
ATCACCTTGCTGGGTTTCAAGTACAGTGAAGATTTTGTCTTGAAGCCGAGGTGGCTGTACAAAAAGAAA
TAAGAGTCAGTTCAGTGAACAAGGTCTCTAGCCAGCCTGAAAAGAGGGTCAAGTCTCTCTTGAAGAGGA
TAGTGACCAAGCCAGCAAGCCAAAGGCAGAGAAGGAGACTGAGGACGTCGGACTGACCAGCGGT
GTTTCTTAGCACCTGTTTCCCTGCCGAGGGTGGCCAGTCCAGAGCCTAGGCTGTTGGAGCCCTCTGACC
ATGCATCCATGTGCTGGCCATCTTGGAGGAGATCAGACAGGCAAGGCCAGAGAAAGCAGCTTCATGA
CTTTGTGGCCAGGGGCACAGTCTTTCTACTGTGAAACTTTACTAGAACCCGAATGTTCTTCAAGGTT
GCTGGCAGGCCTCAGTGTAAACAATAGACCAGTCATCATCAGACCAGACCAGGAATGAGGGTGAAGCAC
CGGGATTTTCAATGTCATCTATCTGCTGAAGCAGGGCAGATAGATCTGTTACCTGATGAGAGGAAAGT
CCAGGCCACATCTCTGTCTGCAGACAGCTTTGAATCTCTGCCAATACGGAAGTACAGAGAGCCATGG
GATCCTGTGCAGGCTTTCTCCCATGCTGCTCCTGCTCAAGACAGGAAACGTCGACTGGAGAAGTGAAGC
AGTTCCGCGGAGCAAGTGAACATTTATATGCTACTCTAGTTCTTCTGAAATCATAGAGAAAAAGAAAGA
TGCAACCAGAACCTTCTCAGCTGATCTTTGGCCCCAGACAGTCTCGTTCTTCCAGCACCTGTGGAG
GAGGTGAGGAGGTAGTATCAAAGAAGGTAGTGGTGCCTTACCTTCTCAGGCCCTTATGATGATCCTA
GAGTGACTCTGCATGAGTAAGTCAAGTCAAGTCCGAGGAGACTGCAGAGGGCATACCCCTGGCAGTCA
GGACAGCAGCCAGAGCATCAGGAACCCAGAATCTAGACACCACATATGGAGAAGTTTTCAGATAATTTG
TTAGTGACTGCACAGGGAGAAAAACAGCCATTTTGAAGTCAAGTCTGTGACCTGTGATGTTTCAAGT
CTACAAGTGCCTCAGGGCCTAAGCAAGACCATGTCCAATGCCCTGAGGCTTCTACTGGCTTTGAAGAAGG
TAGGGCAAGTCCCAACAAGATACCATTCTGCCTGGAGCTCTGACAAGGGTTGCACTGGAAGCTCCACAC
CAGCAGTGTGTGAGTGTAAAGGAGTGTGGGTCTGGTTGACAGAAGTCTGCAGGGCTGGCAGCAAAAC
ATTCCAGGCCAATTCAGTCCAGATCAAAGACCAAGCGCAATCCTGGGGGAATTTGGGAGGAAGCCCC

ATGTAGACACCCAAGGGAAGCTTTAGATGGCCCTGTCTTCTCAAGGAACCCTGAAGGCAGCAGGACTCTC
 AGCCCCTAGAGGGAAAGAGAGCAGAAGCTTCTCCTTGCCGACAGCCATGCAGTTCTCAACCTGTTGCTA
 CTCATGCTTATTCCTCCCATTCTCTACTTTACTGTGTTTTAGAGATGGTGACCTAGGGAAGGAGCCTTT
 CAAGGCTGCCACATACTATCCACCCACCCTGTGTAGTACCTCCAGGGCCTATGAAATGGATGAGACA
 GGAGAGATCTCTAGGGACCTGATGTGCACTTGACACATGGCCTTGAGCCCAAAGATGTTAACAGGGAAT
 TTAGGCTAACAGAGAGCAGCACTTGTGACCTTCTACTGTGGCTGCTGTCTATCTCGAGCTCAAGGCTG
 CAGATCCCCTTCTGCTCCTGACGTGAGGACAGGTTCCCTCAGCCACTCAGCTACTGATGGAAGCGTGGGG
 TTAATAGGGGTTCTGAGAAAAAGGTTGCTGAGAAGCAAGCAAGCACAGAAGTTGAGGCTGCCTCTTTCC
 CTGCAAGCATGTACTCTGAGCCCTGAGGCAGTTTAGGGACAGCTCTGTAGGTGACCAGAATGCACAGGT
 GTGTCAAACCAATCCAGAACCACCTGCAACAACCTCAGGGACCACACACCCTGGATTTAAGTGAAGGGTCT
 GCTGAGAGCAAGTTGGTGGTAGAGCCACAGCATGAATGTTTAGAAAAATCCACTAGATGTTTTTGGAAA
 AGCCACAATTTTCCACTGAGTTGAGGGATCACAATCGTTGGATTCCCAAGCCAAGTTTGTAGCAAGGTT
 AAAACATACCTGCAGCCCCAGGAAGACAGTCCCTGGCAGGAAGAAGAGCAGCACAGAGACCAGGCTTCA
 GGTGGTGGAGAAGGCTTCGCCAGGGTGTGAATCCCCTTCTGATGAAGATGGCTTAGATGGCTGTCAGA
 TTTTAGATGCTGGGAGAGAGGAGGTGGCTGTGGCCAAGCCTCCTGTGTCCAAGATTTTATCACAGGGCTT
 CAAAGACCAGCCACTGTGCTCCTTGAGGCAAAAATGAAACACCCGACGCCTGCTGCTCAGAGGAGTGGCCAC
 CTCTACACTGGCAGAGAGCAGCCAGCACCCAACACAGGGGCTCACTTCTGTGACTACAATCTTCTCTG
 GCCCAAAACACTCCAGGTCTCCCCACACCACAGTTCTCAGTTGTGGCTCTTCTGTTCTCTTACAGGA
 GCTGAACCTGAGTGTGGAGCCTCCTTCCCCTACAGACGAAGATACACAGGGGCTAACAGATTGTGGAAC
 CCACATCTCAGGGGCTATTCCTCAGGAAAGTCACTGGCAAGAATCTCTGCAGGCTGAGGACAGCAATC
 AGAAAGCCTCATCTCGCTTGGATGATGGGACTACCGATCACAGGCACCTGAAGCCTGCCACCCCTCTTA
 TCCAATGCCTTCCACTCTCTCACATGCCAACCCCTGATTTACGACCAGCTGGATGTGTGCTACTTTG
 GAAGACCCCAACAGGGAAAGCAGAGAAAACCTGGGTGTCCAGTTAGGCCAGAAAATGGTGTCTCAGA
 TGGACAAAAGGAATGCTGCACTTTGGCTCCAGTGACATCAGTCCCTATGCGCTGCCGTGGCGTCCGGAGGA
 GCCTGCACGTATCAGCTGGAAGCAGTATATGTCTGGCAGTGCAGTCGATGTTTCTGCAGCCAGAAGCCC
 CAGGGGCTGACACTATCAAATGTGGCCCGTGTCCAGCATGGACAATGGCCTAGAAGACCAGAAGTCCC
 CTTTCCACTCCCACCTCAGCACTTACGCCAATATTTGTGATCTGTCAACCACACAGCAGCACTGAGAA
 TGCCAGGGTTCAAATGAGGCCTGGGAAGTATCCGAGGGAGTTCTTCAATTGCCTTAGGAGACCCCCAC
 ATCCCAGCAGCCCTGAAGGAGTAGCCCCACTTCGGGTATGACAGAAGGCCTCAGTTCAGGGGCCCTT
 CTGGTGAAGCAGACTGTCTGAGGAGTAGCCCCCTTGGCCAAAGGAAGTGTGCAGGTCCAGTGGATGA
 GATTATGTGCTGTATCCATCAGAGGCAGGCTGCCCTGTGGGACAGACCAGGACGAACACATTGCAACAG
 GGCACACAGACCCTCGGCAGCAGGCGCCACTGGAGCAGCACTGACATCTCCTTTGCTCAGCCTGAAGCCA
 GTGCAGTATCAGCCTTGTATCTGGCCTCATGGACCAGCATGCACAATCTGTCTCTCCACCTCTCACAGCT
 CCTGCACAGTACCTCAGAGCTGCTTGGGAGTCTCTCCAGCCAGATGTGGCCAGAAGGGAGCAGAACACC
 AAGAGGGACATCCAGATAAAGCCCCACAGGCCCTGATGATGGATGGCTTACTCAGACCCTGTGGATG
 AGGGCAGCCAGACTGACCTCACCTTACCACCCCTGTGCCCTCAGACTTCCAGAGGCTGAACCTCAGGGAGC
 CAATGTGATCCTTGAAGGGCTAGGCTCAGATACCTCGACTGTGTCTCAAGAAGAGGGAGATGTGCCAGGG
 GTACCTCAGAAGAGAGAGGCAGAGGAAACAGCACAGAAAATGGCTCAGCTCCTCTATCTTCAGGAAGAAA
 GCACCTCCCTACAAGCCCCAGAGCCCTTCAATACCCTCATCCCCTTGAAGTTTTCAGAAAAGCCCCGTTGG
 GCAGCATCTTCTTCTGTGAGCCCTCAGTTTCTGATGCTTTCCTGCCTCCCAGCTCCCAGCCAGAGGAG
 TCATATTGCTTAGTTGTGACAGTCCCAGTCCCAGCTCCCCTCATTCCCAGGGCTCTTCCCAGTACTT
 CCGAGTATCCTGGGGACTCCAGGGTCCAGAAGAAGCTGGGCCCAAGTGTCTTGTGCTGGACAGGGC
 CTCCTCCCAATCCTCACTCTTAGTGCCAGCACCAAGAGCCGGGCTTTCCCAGGCTCTTTGACCCTC
 TCAGCCCTTCAACTCACCTGTTGAAGGCCACCAGAAGCTTACTCCAGCCAGACCCTGTTGATGCC
 CAAGGACTCCAATGGATAATTATCCCAAACCACTGACGAGTTAGGTGGCTCCCAGAGAGGTAGAAGTTC
 CTTACAAAGGAGTAATGGGAGATCCTTCTTGTGACTCCCCACACAGCCCACAGCAGAGTCCAAAA
 CTCCAATTTAGTTTCTTAGGGCAGCACCTCAGCAGCTTCCAGCCAGGACAATATCGGGGTCCAAAGCA
 GACTGCTGCCACCACCACTGAGGCACAGGAGCCAAAGGCTGGGCAACAGCTTTGTGCTGAGAAGGTGGC
 TCCCCCGAGCATTGCCCACTGAGCGGTAGGGAGCCAAGTCAAGTGGCAGAGCAGGACAGAAAATGGAGGT
 GAGAGTTCAGCATCTCCAGGGGAACCACAACGCACTCTGGACCGACCTTCTTATGGGGAGGCTCCAGC
 ACCTCAGCCCCTGCCCTGTCTGTGAGTTGACTGATACTGCAGGGCTCCGAGGTTCTGCCTTGGGCCCTCC
 TCAGGCCTGCCAACCTGAGGAGTTACTGTGCTTCAAGTGGCAGATGTGCATGGCCCTGAGCACCAGCAC

CACAGTCTGAGGGACCTCCCGGTGCATAACAAATTTAGTAACTGGTGTGGGGTTCAGAAGGGCTCACCTG
 GGGGGTTGGACATGACTGAGGAGGAGCTGGGGCCAGCGGTGATCTCAGCTCTGAAAAGCAGGAACAGAG
 TCCCCACAACCTCCTAATGACCACAGCCAGGATTCTGAGTGGTCCAAGAGGGAGCAGATCCCCCTGCAA
 GTTGGGGCCAGAACCTCTCACTCAGCGTGAAGCTCACAGAAGCGAAACTGCACCATGGCTTTGGGGAGG
 CCGATGCCCTGCTCCAGGTGCTGCAGAGTGGGACAGGGGAGGCGCTTGTCTGATGAACCTGTGACATC
 CACCTGGAAGGAGCTCTATGCACGGCAAAAAAGGCCATTGAGACCCTCAGGAGAGAGCGGGCTGAGCGA
 CTTGGAACTTCTGCCGACGCGAAGCCTTAGCCCTCAGAAACAACTGAGCCTCTGCCAACAAAGATC
 TCTTCATCTGGGATCTTGACTTGCCAGCAGACGCCGAGAATACCTGCAGCAACTGAGGAAGGATGTTGT
 GGAGACCACCAGGAGCCAGAGTCAAGGTGAGTGTCAAGGTCAGCTCACACACCCTCTGACATAGAGTTGATGCTG
 CAAGACTACCAGCAGGCCATGAGGAGGCCAAGGTGGAGATTGCCCGGGCCGAGACCAACTGCGGGAGC
 GGACTGAACAAGAGAAGCTGAGAATCCACCAGAAGATCATTTCCAGCTATTGAAGGAAGAGGATAAACT
 ACATACCTTGCCAAATCCAGCTCCCTGTGCACCAGCTCTAATGGAAGCCTCTCGCTGGCATGACCTCT
 GGCTATAATAGCAGCCAGCCTTGTGAGCCAGCTCCAGTCCCAGAGAATATGGGGCATACAACTTGC
 CTGATTCCAGGGATGATGGATAGGGGATGAGCGAGGAGGCCATTCTGCAGTGAGGAAGAACTCTGCCTA
 CAGCCACAGAGCCTCCCTGGGCAGTTGCTGCTGTTACCATCCAGTCTGTCCAGCTTGGGGACCTGCTTT
 TCCTCCTCTACCAGGATTTGGCCAAGCATGCTGTTGACACTTCTATGGCTGATGTAATGGCTGCTTGT
 CCGATAATTTGCAACCTCTTCACTGCCAGGCAACTGCTGGCTGGAATATCAGGGTGAGGAGCAGGC
 GGTGCAGCTTTACTACAAGGTGTTTTCTCCCACTCGGCATGGCTTCTGGGGCAGGTGTGGTGTCCAG
 CCGCTGTCTCGTGTGGGGCGCTGTGAGTACCCCACTGTGTGGCCCTGTATTACAAGCCATCCAGA
 CAGCAAGGCTGCATCAGCGAGTGACCAACAGCATCAGCCTGGTGTACTTGGTGTGCAACACCACCCTGTG
 CGCACTGAAGCAGCCACGGGATTTCTGTTGTGCTGCGTGAAGCCAAAGAGGGTACCTGTCTGTGATG
 GCAGCCAGTCTGTGATGATACATCCATGCCAAGACCCAGCAGAAAAATGGTTCGCGGGGAGATCCTGC
 CCAGTGCCTGGATCTTGACGCCATCACTGTGGAAGGGAAGGAAGTACCAGAGTCACTACTTGGCCCA
 GGTGGAACCTTGGTCTCCAGGCTTCCCACTCAGCTCCTGAGCTTTTCATCAAACGGCAGCCACTGGTT
 ATAGCCAGACTGGCTTCTTCTTGGTAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG235411 representing NM_020759

Red=Cloning site Green=Tags(s)

MANVQVAVRVRPLSKRETKEGGRIIVEVDGKVAKIRNLKVDNRPDGFSDSREKVMAGFDYCYWSVNPED
 PQYASQDVVFDLGMVLSGVAKGYNICLFAYGQTGSGKTYTMLGTPASVGLTPRICEGLFVREKDCASL
 PSSCRIKVSFLEIYNERVRDLKQSGQKSYTLRVREHPMGPYVQGLSQHVVTNYKQVIQLLEEGIANR
 ITAATHVHEASSRSHAFITIHYTQAIENNLPEMASKINLVDLAGSERADPSYCKDRIAEGANINKSLV
 TLGIVISTLAQNSQVFSQCQLNSVSNNGDSSGILSSPSGTSSGGAPSRQSYIPYRDSVLTWLLKDSL
 GNSKTIKVATVSPAHTSYSETMSTLRYASSAKNIINKPRVNEANLKLIRELREEIERLKALLLSFELRN
 FSSLSDENLKELVLQNELKIDQLTKDWTQKWNWQALMEHYSVDINRRRAGVVIDSSLPHLMALEDDVLS
 TGVVLYHLKEGTTKIGRIDSDQEQDIVLQGWIERDHCTITSACGVVVLRPARGARCTVNGREVTASCR
 TQGAIVITLGAQKFRFNHPAAAVLRQRQVGEAAAGRGSLEWLDLGDLAASRLGLSPLLWKERRALEE
 QCDEDHQTTPRDETSRAQIQQQQSYVEDLRHQILAEIRAARKELEFDQAWISQIKENQQCLLREETWL
 ASLQQQQEQEDQVAEKELEASVALDAWLQDPEIQSPFVQSQRVVLHQLLRHTLRAAERNVRRKKVSF
 QLERI IKKQRLLEAQKREKLTTL CWLQDDSTQEPPYQVLS PDATVPRPPCRSKL TSCSSLSPQRLCSKH
 MPQLHSIFLSWDPSTTLPPRPDPHTQTSKTSSEEHLQAASYPARTGCLRKNGLHSSGHGQPCTARAAL
 ARKGASAPDACLTMSPNVGIQEMEMGVKQPHQMVSQLASLRKSANKLKRHEPKIFTSTTQTRGAKGL
 ADPSHTQAGWRKEGNLGHKAAKGASCNSLYPHGPRQTAGHGKAVKTFWTEYKPPSPSRASKRHQVLA
 RVRNITKSSHLPLGSPKLRQNRDPDMVPLTDFSPVMDHSREKDNLDSDTDSNYSLDSLSCVYAKAL
 IEPLKPEERKWFPEPEENSESDSQLSEDSLAEKRYQSPKNRLLGGRPTNRRGQPRTRTRASVRFATAAS
 DSDLLAQTHRSFSLDSLIDAEELGEDQEQEPPFGSADEIPTETFWHLEDSSLPVMDQEAICRLGPINR
 TAARLDAVLPMSSSFYLDQPQPHCELQPHCELQPHCELQPHCEQAESQVEPSYSEQADSLQGMQLSRES
 PLMSMDSWFSCDSKINPSSPPGIVGSLCPSDMQEFHSCKGERPGYWPNTTEELKPSDAETVLPYSSKLHQ
 GSTELLCSARDEHTASAADTSRLSLWGIQRLIQPGADGTFQGRCPDIPMTQQGSSEASHNSVSNVLAASA
 TTLTHVGSTHERDWSALQQKYLLELSCPVLEAIGAPKPAYPYLEEDSGSLAQASSKGGDTLLPVGPRVSS

NLNLNFPVHLSRIRRLRAEKEQDSLNAKLEGVSDFFSTSEKEASYDEYASDLESLSASRSTNAQVFAT
 ENAIPDSMTEACEVKQNNLEELQSCRKPLMTSSDEFFQKNACHSNVTTATKADHWSQGWAPLRKNSA
 VQPGQLSPDSHYPLEEEKTDCQESSKEAVRRHINVSFALPSGPELYLHSAWPNPLSSSLQPPLLETFYVT
 KSRDALTETALEIPACREVRVSPPPREAWGFGHNHQLQGAYLKNLPLVLLQNQNSKIASSQQVTAIEIP
 VDLNTRVIRESGKCPGNI TEESHDSVYSSVTQNRHFLPSTSTKVCFENQVVILNKKHSFPALEGGVET
 AQSCCGASSDSTESGKSLFRESEAREEEELDQNTVLRQTINVSLEKDMPEGESAVSLKRSVDRRVSSPV
 MVAQGGGPTPKWEGKNETGLLEKGLRPKDSSEEFKLPGTKPAYERFQLVACPQERNPSECKSQEMLNPNR
 EPSGKKQNKRVNNTDEMARLIRSVMLQENGLIEIESKQNKQVHASHTPGTDKELVFQDQKEQEKTDHAFR
 PDSSGNPLPSKDQPPSPRQTDVFRDSEAGAMEVNSIGNHPVQVKITPNPFRSREGVRESEPVREHTHP
 AGSDRPARDICDSLGHKHTTCREFTNTSLHPQRMKALARALPLQPRLEKSSKNNGQFVKASASLKGQPWGL
 GSLEELETVKGFQESQVAEHVSSNQEEPKAQKVEEMPQORGGSLQEENKVTQKFPSLSQLCRDTRFRQ
 ETVSPLL SRTEFCTAPLHQDLNNTLPLNSPRWPRRCLHVPVALGISSLDLDCVLDL TMLKIHN SPLVTGVEH
 QDQSTETRSHSPEGNVRGRSSEHTAWCGSVRSMAMGSHSQSGVPEIPLGTEDRISASTSPQDHGKDLR
 ITLLGFSTSEDFASEAEVAVQKEIRVSSLNKVSSQPEKRVSFLEEDSDQASKPRQKAEKETEDVLTSG
 VSLAPVSLPRVPSPEPRLLPEPSDHASMCILAILEEIRQAKAQRKQLHDFVARGTVLSYCETLLEPECCSRV
 AGRPQCKQIDQSSDQTRNEGEAPGFHVASLSAEAGQIDLLPDERKVQATSLSADSFESLPNTETDREPW
 DPVQAFSHAAPAQDRKRRTGELRQFAGASEPFI CHSSSSEIEIKKDATRTPSSADPLADSPRSSAPVE
 EVRRVVSKKVVAALPSQAPYDDPRVTLHELQSVPQETAEGIPPGSQDSSPEHQEPRTLDTTYGEVSDNL
 LVTAQGEKTAHFESQSVTCDVQNSTSASGPKQDQHVQCEASTGFEEGRASPQDITLPGALTRVALEAPT
 QQCVQCKESVGSGLTEVCRAGSKHSRPIPLDQRPANPGGIGEEAPCRHPREALDGPVFSRNPEGSRTL
 SPSRGKESRTLPCRQPCSSQPVATHAYSSHSSTLLCFRDGDLGKEPFKAAPHTIHPCCVPSRAYEMDET
 GEISRGPDVHLTHGLEPKDYNREFRLTESSTCEPSTVAAVLSRAQGCRRSPADVVRTGSFSSHTLDSVGL
 LIGVPEKKAQASTELEAASFPAGMYSEPLRQFRDSSVGDQNAQVCQTNPEPPATTQGPHTLDSSEGS
 AESKLVVEPQHECLENTTRCFLEKPFSTELRDHNRDLSQAKFVARLKHTCSPQEDSPWQEEQHRDQAS
 GGGEGFAQGVNPLPDEDGLDGCQILDAGREEVAVAKPPVSKILSQGFKDPATVSLRQNETPQPAARSGH
 LYTGREQPAPNHRGSLPVTTFISGPKHSRSPPTQFQSVVGSRSRLQELNLSVEPPSPTDEDTQGPNRLWN
 PHLRGYSSGKSVARTSLQAEDSNQKASSRLDDGTTDHRHLKPA T P P Y P M P S T L S H M P T P D F T T S W M S G T L
 EQAQQKREKLVQVRPENWCSQMDKGMHLFGSSDI SPYALPWRPEEPARI SWKQYMSGSAVDVSCSQK
 QGLT LSNV ARCSMDNGLEDQNSPFHSHLSTYANICDLSTHSSSTENAQGSNEAWEVFRGSSSIALGDPH
 IPTSPEGVAPTS GHDRRPQFRGSPGEADCLRSKPLAKGSAAGPVDEIMLLYPSEAGCPVGQTRTNTFEQ
 GTQTLGSRRHWSSTDISFAQPEASAVSAFDLAWTSMHNL SLHL S Q L L H S T S E L L G S L S Q P D V A R R E Q N T
 KRDI PDKAPQALMMDGSTQTTVDEGSQTDLTLPTLCLQTSEAEPGANVILEGLGSDTSTVSQEEGDVPG
 VPQKREAEETAQKMAQLLYLQEEESTPYKQSPSIPSSHLRFQKAPVGHLPVSPSPVSDAFLPPSSQPEE
 SYCLVSSPSPSSPHSPGLFPSTSEYPGDSRVQKKGPTSA LFVDRASSPILTLASTQEPGLSPGSLTL
 SAPSTHPVEGHQKLDSSPDVDPARTPMDNYSQTTDELGGSQRGRSSLQRSNGRSFLELHSPHSPQQSPK
 LQFSFLGQHPQQLQPRTTIGVQSRLLPPLRHRSQRLGNSFVPEKVASPEHCPLSGREPSQWQSRTEGG
 ESSASPGEPQRTLDRPSSWGGLQHLSPCPVSELTDAGLRGSALGLPQACQPEELLCFSCQMCAPEHQH
 HSLRDLPVHNKFSNWCGVQKGSPPGGLDMTEEELGASGDL SSEKQEQSPPQPPNDHSQDSEWSKREQIPLQ
 VGAQNL SL SVEL TEAKLHHGFGEADALLQVLSGTGEALAADEPVTSTWKEL YARQKKA IETLRREARAER
 LGNF CRTRSLSPQQLSLLPNKDLFIWDLDLPSRRREYLQQLRKDVVETTRSPESVSRSAHTPSDIELML
 QDYQQAHEEAKVEIARARDQLRERTEQEKLRIHQKIIISQLLKEEDKLHTLANSSSLCTSSNGSLSSGMTS
 GYNSSPALSGQLQFPENMGHTNLPDSRDVWIGDERGGHSAVRKNSAYSHRASLGSCCSPSSLSSLGTCF
 SSSYQDLAKHVVDTSMDVMAACSDNLHNLFSQATAGWNYQGEEQAVQLYKVFSPTRHGFLGAGVVSQ
 PLSRVAAVSDPTVWPLYKPIQTLARLHQRTNSISLVYLCNTTL CALKQPRDFCCVCVEAKEGHL SVM
 AAQSVYDTSMPRPSRKMVRGEILPSAWILQPI TVEGKEVTRVIYLAQVELGAPGFPPQLLSSF IKRQPLV
 IARLASFLGR

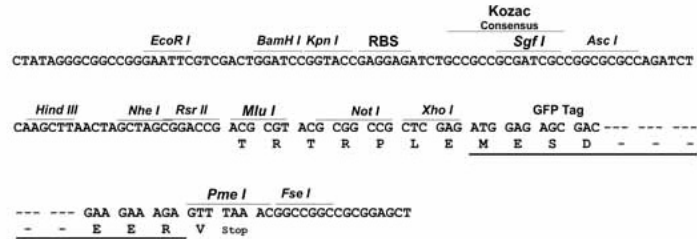
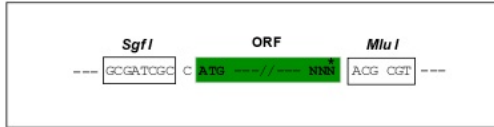
TRTRPLE - GFP Tag - V

Restriction Sites:

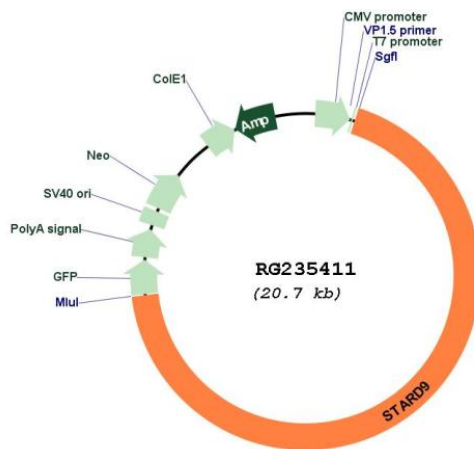
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_020759
 ORF Size: 14100 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_020759.3
RefSeq Size:	15584 bp
RefSeq ORF:	14103 bp
Locus ID:	57519
UniProt ID:	Q9P2P6
Cytogenetics:	15q15.2
Protein Families:	Druggable Genome
Gene Summary:	Microtubule-dependent motor protein required for spindle pole assembly during mitosis. Required to stabilize the pericentriolar material (PCM).[UniProtKB/Swiss-Prot Function]