

Product datasheet for **RG235409**

DYNC2H1 (NM_001080463) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC2H1 (NM_001080463) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DYNC2H1
Synonyms:	ATD3; DHC1b; DHC2; DNCH2; DYH1B; hdhc11; SRPS2B; SRTD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235409 representing NM_001080463 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACGGGACTGCGGACGTTCCGGAAGCTCTTCATCTTCACTACTACCCAGAATTACTTCGGTTGA
TGTCTGAACTCTGGGATCAGCCACTGTTGTGCACTGTCTTGAAATCAACAACCTCTTGGATGACGGCAA
CCAGATGCTCCTCAGGGTGCAGCGATCCGACGCAGGAATCTCTTTTCCAACACGATTGAGTTTGGTGAC
ACAAAAGATAAAGTGCTGGTGTTCAGCTGCGACCTGAAGTAATTACTGATGAGAATCTACATGATA
ACATTCTGTTTCATCTATGTTAGAGTCACCTATTAGTTCCTTTACCAAGCAGTACGGCAAGTATTCGC
ACCAATGTTGTTAAAGGATCAGGAATGGAGCAGAACTTTGATCCAAACTTCAGAATCTTTGAGTGAA
CTAGAAGCTGGTGGTATAGTTCTACGAAGATCAGACACTAACTTAACAAAATTGAAATTTAAGGAAG
ATGACACACGAGGTATCCTTACACCAAGCGATGAGTTCAGTTTTGGATAGAACAAGCTCACCGTGGAAA
TAAACAGATTAGTAAAGAAAGAGCCAATATTTTAAAGAATTATTTGAAACAATTGCAAGAGAGTTTTAT
AACTTGGACAGTCTATCCTTACTAGAAGTTGTTGACTTGGTGGAGACTACTCAGGATGTTGTAGATGATG
TGTGGAGACAAACAGAACATGATCATTACCTGAGTCACGAATGTTGCATCTCTTAGACATCATAGGTGG
TTCATTTGGAAGTTTGTTCAGAAAAAGTTGGGAACCTTGAACCTGTGGGAAGATCCTTATTATCTTGTG
AAAGAAAGTCTGAAAGCTGGTATTTCAATTTGTGAACAGTGGGTGATAGTCTGTAATCATCTAACAGGTC
AGGTGTGGCAGCGCTATGTTCTCATCCATGGAAAAATGAAAAATTTTTCCAGAAACACTTGACAAACT
TGGCAAACGCCTTGAAGAGGTCTTGCTATTAGAACAATTCATGAGAAGTTTCTCTATTTTCTACCTGCC
AGTGAAGAGAAAAATCATATGCCTCACTCGAGTATTTGAACCTTTTACTGGCCTGAATCCTGTGCAATATA
ATCCATACTGAGCCCTTGTGGAAAGCTGCGGTGTCTCAATATGAAAAGATTATTGCACCTGCGGAACA
AAAAATAGCAGGAAAAATTGAAAAATTATTTTCAGAAATCAAGACAGTCCACAGCAGCTTCTTCAAGCA
TTCCTGAAATATAAAGAGTTGGTAAAGCGTCCAATAAGCAAAGAATTGATGTTAGAAAGAGAACTT
TACTGGCAAGACTTGTGGACTCAATTAAGATTTTCGATTAGACTTTGAGAATCGGTGCCGAGGAATTCC
TGTTGATGCATCTGGACCACTTTCTGGCAAAAATCTTTCAGAAGTTGTCAACAGTATAGTTGGGTTCCG



[View online >](#)

CAGTTGGAATTGAAGGTAGATGATACTATCAAGATTGCAGAGGCTCTTTTATCTGACTTGCCAGGATTC
 GATGTTTTCCATCAAAGTGCCAAAGATCTCTTAGACCAGCTTAAACTATATGAACAGGAACAATTTGATGA
 TTGGTCCAGGGATATTCAATCAGGTTTATCTGATTCCAGATCTGGTTTGTGATTGAGGCTAGTAGTCGA
 ATTATGGAATTGGATTCTAATGATGGATTACTAAAAGTGCATTATTCAGATCGTTTGGTATTCTTCTGA
 GAGAAGTTCGTCAGCTCTCTGCACTTGGCTTGTATTCTGCCAAAATACAGCAAGTTGCAACATTGC
 ACAGAAATTCGCAAGCAAGCAATTATTCTTAAACAAGTGGCACATTTTTATAATTCTATTGATCAACAA
 ATGATTTCAAAGTCAGAGCCCAATGATGTTACAATCTGCCTTAGCATTGGAACAGATAATTAAGAATTCAA
 AAGCAGGAAGTGGAGGGAATCACAGATAAAGTGGGATAATCCTAAAGAATTAGAAGGCTATATCCAAAA
 ACTCCAAAATGCTGCTGACGGCTTGCCACTGAAAATAGAAAAGTGAAGAAATGGCACACTACATTTTGT
 GAAAAGTGGTGTCTTATGAATATTGATCTGCTTCGGCAGCAACAGCGCTGAAAAGTGGATTACAAG
 AATTGAGAACTGGCTTAGCAACTGTAGAAGCACAGGGATTCCAAGCAAGTGACATGCATGCATGGAACA
 AACTGGAATCATCAACTGTACAAAGCTCTGGAGCATCAGTACCAGATGGGCTTAGAAGCACTTAATGAG
 AATTTGCCAGAAATAATATAGACTTAACTTACAACAGGGACGATTACAATTCAGGCCCTTTTGAAG
 AAATCCGGCTAAATATTATAGAGAAATGAAGAGATTCATCGGCATTCCAATCAGTTAAGGGAGTGGG
 TGAGGCAGGAGATGAATCTATTTTTCTATTATGATTGATAGAAATGCAAGTGGATTTTTGACGATTTTC
 AGCAAAGCAGAAGATCTGTTTAGAAGATTGTCAGCTGTTTACACCAACATAAGGAATGGATTGTAATTG
 GGCAAGTTGATATGGAAGCTCTGGTGGAAAAGCATCTTTTTACTGTACATGATTGGGAGAAAAATTTAA
 AGCATTAAAAATAAGGGGAAAGAAGTAGAACGACTTCCAAGTGTGCAAGGTAGATTGTTAAATATT
 AATTGCAACCCTGTGAAGACTGTGATTGATGATCTCATCCAGAAGTTATTTGATCTGCTTGTCTTTCTT
 TGAAGAAGTCCATACAGGCTCATTTACATGAAATTGATACATTTGTTACTGAGGCTATGGAAGTCTTAAC
 AATTATGCCCCAGTCTGTGGAAGAAATGGTGATGCAATCTACAATATAGTAAGTTACAAGAACGGAAG
 CCAGAGATTTGCCCTTATTTCAAGAAGCTGAAGACAAAAACAGACTTTTACGAAGTGGCTGGTGGAG
 GTTTGAAAACAATTAGTAATTTGAAAGCCAAGTGGGATAATTTGAGTTAATGATGGAAAGTCAACCAAT
 TATGATTAAGACCAAGATTGAAGTGTGAAAGGAAATGTGAAATCACGCTTTCAGATCTATTATCAAGAA
 CTGAAAAAATTTAAGCTCGTTGGGACCACTAAAGCCTGGTGTGATGTTATTGAAACTGGCCAACATA
 ATACTCTTGATAAAAAGTCAAAAGTTAATAAAAAGAGAAAAAATTTGAGTTTGTGATCTTGAAGTCACAAG
 AAAAAAGCTGGTTGATGATTGCCATCATTTTAGACTGGAAGAGCCTAATTTCTCCTGGCAAGTAGTATC
 TCTAAAGATATCGAGAGCTGTGCCCAAATTTGGGCCTTTTATGAAGAGTTTCAACAAGGATTTGAGGAA
 TGGCCAATGAAGACTGGATCACTTTTCGGACTAAGACATACCTGTTTGGGAATTTTTGATGAAGTGGCA
 TGACAGATTAAGGAAGGTTGAAGAACATTCAGTGTGACAGTGAATTAACATCAGAGGTTGACAAATAT
 AAAATCGTAATTCCTATCTTGAATATGTGAGAGGGGAGCATCTTCTCCAGATCACTGGCTTGACCTTT
 TTCGCTCCTTGGACTTCTAGGGGACTAGTCTAGAGAACTACTGTTTGGTGTATTGCTCAGAGTAGC
 TGATACAATTGTAGCCAAAGCTGCCGACCTTAAAGATTTAAATAGTCGGGCACAAGGTGAAGTTACAATC
 AGAGAAGCTTTACGTGAAGTGTCTTTGGGGAGTTGGAGCAGTGTACATTAATTGATTATGAAGACA
 GCCAAAGTCGAATATGAAGCTGATTAAGACTGGAAAGATATAGTAAATCAGGTTGGAGATAATAGATG
 CCTTCTCCAATCCTTAAAGGATTCCTTATTATAAAGGATTTGAAGATAAAGTATCAATTTGGGAAAGA
 AAAGTTCAGAGTTAGATGAATACCTGCAGAATTTAAATCATATTCAGAGAAAGTGGGTGATTTGGAAC
 CCATTTTCGGCCGTGGAGCATTGCCAAAAGAACAGACAGCTTCAACAGAGTTGATGAAGATTTTAGATC
 AATAATGACTGATATCAAGAAAGACAATAGAGTCACAACATTAAGTACTCATGCTGGAATAAGAAATTC
 CTACTAACAACTTGTGATCAGCTTCAAAGATGTCAGAAATCATTAAATGAATTTTTGGAGGAAAAACGCT
 CAGCATTCCCAAGATTTTATTTATTGGTGTGATGACTTATTAGAAATATTGGGCCAGTCTACCAACCC
 ATCAGTGAATCAGTCTCACCTGAAGAAGCTTTTTGCTGGTATTAACAGTGTGCTTTGATGAGAAATCA
 AAACATAAAGTCAATGAAATCTTTAGAGGGAGAAGTTGTACCTTTAAAAATAAAGTTCCTCTATCAA
 ATAATGTAGAGACATGGTTGAATGATTTGGCCTTAGAAATGAAGAAAACCTTGAAGCAGTTGTTGAAGGA
 ATGTGTTACTACTGGCGAAGTTCTCAAGGTGCAGTTGACCCATCTCTGTTCCCTCACAGATTTTATGC
 TTGGCGGAGCAGATTAATTCAGTGAAGATGTAGAAAATGCTATTAAGATCATAGTCTTCATCAGATTG
 AAACACAAGTGGTGAATAAGTTAGAGCAATATACTAACATTGATACAAGTCTGAGGATCCAGGGAATAC
 TGAATCGGGCATCCTGGAGCTTAAACTTAAAGCCCTAATTCCTGACATTATCCATAATATTGATGTGGTA
 AAGCAGTTAAACCAAAATTCAGGTTCAACAAGTGAAGACTGGGCTTGGAAAAACAACTTAGATTCTATA
 TGAAAAGTGTATACATGTTGTGTTCAAATGGTGGATTCTGAATTTTCACTATACTTATGAATATCAGGG
 TAATGCTTCCAACTGGTTTATACTCCACTGACAGACAAGTGCTACTTAACTCTCACTCAAGCCATGAAG
 ATGGGACTTGGAGGAAATCCTTATGGACCAGCTGGAAGTGGAAAAACGGAATCAGTAAAGGCTTAGGTG

GACTTCTTGAAGACAAGTTTTAGTCTTTAATTGTGATGAGGGCATCGATGTGAAGTCAATGGGACGAAT
 ATTTGTTGGTTTGGTGAAGTGTGGGGCCTGGGGTGTGTTTATGATGAATTTAATAGGCTGGAAGAATCTGTA
 CTGTCAGCAGTTTCTATGCAAAATCCAGACAATCAAGATGCTTTGAAGAATCATAGAAGTGTATGTGAAC
 TGCTTGGCAAGGAGGTAGAAGTAAATTTCAATTTCTGGAATTTTTACTATGAATCCTGCTGAAAAAGG
 TTATGGAGGAAGACAAAACTGCCTGATAATCTTAAACAGCTTTTCAGGCCCGTAGCTATGTCTCATCCA
 GACAATGAGCTTATTGCAGAAGTATTCTCTATTTCGGAAGGCTTTAAAGACGCTAAAGTATTGAGCAGAA
 AATTGGTAGCTATTTTCAATCTATCTAGGGAACTTTTGACACCTCAGCAACATTATGATTTGGGGTTTGAG
 AGCTTTGAAGACAGTTCTGAGAGGAAGTGAAATCTCCTTAGACAGCTAAACAAAAGTGGCACTACACAG
 AATGCTAATGAAAGTCATATTGTGGTACAGCACTGAGGCTTAATACCATGTCAAAGTTTACGTTTACTG
 ATTGACCCCGTTTGTGCACTGATAAAAGATGTCTTCCGGGAATTGAATTGAAAGAAGTGAATATGA
 TGAAGTAAAGTGTGATTAAGCAGGTCTTTGAAGAGGCCAATTATGAAATATACCCAATCAGATCAAA
 AAGGCTTTAGAATTGTATGAACAGTTATGCCAGAGGATGGGAGTTGTTATTGTTGGTCCAAGTGGTGTG
 GAAAATCAACGCTTTGGAGAATGTTAAGGGCTGCGCTTTGTAAACTGGCAAAGTAGTGAACAATATAC
 TATGAATCCCAAAGCTATGCCTCGATATCAATTATTAGGCCATATTGACATGGACACAAGAGAATGGTCT
 GATGGTGTGTTGACAAATAGTGTCTGCAAGTGGTTCGGGAACCTCAAGATGTCAGCTCATGGATAATCT
 GTGATGGTGTATTGACCTGAATGGATAGAATCTCTGAATCTGTTCTGGATGATAATCGACTGCTGAC
 TATGCCAGTGGAGAAAGGATTGAGTTGGCCAAATGTTAACTTTGATTTGAAACTCATGATTTAAGT
 TGTGCATCACCAGCCACAATATCTAGAATGGGAATGATCTTCTTAGTGATGAAGAGACAGATCTTAATT
 CTCTGATAAAATCTTGGTTGAGGAATCAGCCTGCTGAATATAGAAATAATCTTGAATTTGGATTGGAGA
 TTATTTTGAAGGCTTTACAATGGGTTCTAAAGCAGAATGACTATGTGGTAGAAAACAAGTTTGGTTGGG
 ACTGTGATGAATGGTTTGCACATCTACATGGTGCAGAGATCATGACGAATTCATTATTAATCTCATAA
 GGGGACTTGGTGGAAATCTGAATATGAAGTCAAGTGGTTCGAAATTTACCAAAGAGGTTTTTCAATGGCAGC
 AGAATCTCCTCCAGACTTTCACAACTATGGATACCTACTATGACTCTACTAGGGTCGATAGCAACA
 TATGTGCTTAAGAAGCCAGAAGACTTGACTGATGATTTTCAGTAACGGCTTAACTCTTCCAGTCAATC
 AGACTCCTGACATGCAACGAGGTCTAGATTATTTCAAACCATGGTTAAGTTCTGATACTAAACAGCCCTT
 TATTCTGGTAGGACCAGAAGGATGTGGCAAAGGGATGCTGCTCAGGTACGCATTTTCACTCCTGTCAGAACTGAGCCAGA
 ACTCAAATGCTACAGTTCAGTGTAGTGACAAACCACTTCTCGACATCTCCTGCAGAACTGAGCCAGA
 CTTGCATGGTAATCAGTACTAATACTGGTGTGTATACAGACAAAAGACTGTGAAAGACTTGTCTGTA
 CTTAAAAGATATCAACCTACCTAACTTGATAAATGGGGACCAGTACTTGGTAGCATTCTACAACAG
 GTATTGACGTATCAAGGATTTTATGATGAAAATTTGGAATGGGTTGGTCTAGAAAATTTCAAATTTGTTG
 CTTCTATGTCAGCTGGAGGAAGACTGGGAAGACATAAACTTACTACCAGATTTACTTCCATCGTTCTGCT
 TTGTTCTATAGATTACCCAGAAAGAGAGAGGTTACAAACGATTTATGGAGCATATTTGGAACAGTCTCA
 CATAAAATCTGAAGAATCATTCTATTTGGGGTCTTTCATCAAAAATTTATCTTTTAGCAGGATCTATGG
 TACAAGTGTATGAACAGGTGCGAGCCAAATTTACAGTTGATGATTATAGTCACTATTTCTTACTCCTTG
 CATTCTTACCCAATGGGTTCTTGGCTTATTTAGATATGATTTAGAAGGAGGATCCTCAAACCATCCACTA
 GATTATGTGTTAGAAATGTAGCATATGAGGCACGGCGCTTATTTCTGACAAAATTTGTTGGTGCAAAGG
 AACTTCATTTATTTGACATCATTTTAAACATCAGTGTTCAGGAGATTGGGGCTCAGACATATTAGACAA
 TATGTCAGATAGTTTCTACGTTACATGGGGAGCTCGGCATAATTCAGGAGCAAGGGCAGCCCCAGGACAA
 CCATTACCTCCACATGGAAAACCACTTGGAAAACCTAACTTACTGATCTCAAGGATGTTATTAAGGAGG
 GTCTTATTCATTATGGACGAGATAACCAGAATTTAGACATTTTACTTTTCCACGAAGTCTTGGAGTATAT
 GTCTAGGATAGATAGAGTGTGAGTTTCCCTGGAGGTTCACTTCTATTAGCAGGACGCAAGTGGTGTAGGT
 CGTCGGACCATCACTTCTTATGTCAGTACATGCATGGAGCGGTCTGTTTTCTCCTAAAGATTTCCAGAG
 GATATGAACTGAAGCAGTTCAAAAATGATCTCAAAATGTGCTGCAACTTGCAGGAATTGAAGCACAACA
 GGTAGTTTTACTTCTTGGAGATTACCAGTTTGTACATCTACATTTTGGAGATGATCAATAGCCTTTTG
 TCTTCAGGTGAAGTCTTGGACTCTATACTCTTGAAGAATTAGAGCCCTGCTGTTACCCTTAAGGATC
 AAGCTTACAAGATGGTTTTTTGGACCAGTCTCAATTACTTCCATATAGAATTCAGCAAACTTGCAT
 TATTGTCTTGATAATGGATTCTGCAAAATCAAACCTCATGATAAACTGTGAGAGTAAATCCAGCTTTGCAT
 AAGAAATGCCAGGTGTTGTGGATGGAGGTTGGTCCAATAGCAGTATGAAGAAAATACCTGAAATGTTAT
 TCAGTGAACAGGTGGTGGAGAAAAATACAATGATAAAAAACGAAAAGAAGAAAAGAAAAAAATTCAGT
 TGATCCTGATTTTCTAAAATCATTTTTATTAATCCATGAATCTTGTAAAGCATATGGTGTACACCAAGC
 CGATACATGACCTTTTTACATGTGATTCTGCCATTAGTAGTAGCAAGAAAAGGAATTTAAAAAGAC
 AAAGTCATTTGCAGGCTGGTGTATCTAACTAAATGAAGCTAAAGCTCTTGTGGATGAAGTGAACAGAAA

AGCTGGAGAACAAAGTGTGTTACTTAAAACGAAGCAAGATGAAGCAGATGCTGCCCTTCAAATGATCACA
GTGTCAATGCAGGATGCTAGTGAGCAAAAAACAGAACTTGAAAGACTGAAGCACAGAATAGCAGAAGAAG
TTGTTAAATTTGAAGAAAGAAAAATAAATTTGATGATGAATTAAGAAGTACAACCTTTAGTCAATGA
AGCTAACTAGCAGTTGGAAACATTAAGCCGAATCACTTTCAGAAATTCGCTCACTACGCATGCCACCT
GATGTAATTAGAGATATCTTGAAGGAGTTTTAAGGTTGATGGGTATCTTTGATACATCTTGGGTGAGCA
TGAAAAGTTTCCTTGCAAAAAGAGGTGTAAAGAAAGACATAGCAACCTTTGATGCCCGAAATATTTCAA
GGAAATAAGAGAGAGTGTGAAGAAGTCTTTTTAAAAATAAAGGCTCTTTGATCCAAAGAAATGCTAAG
CGTGCCAGTACTGCAGCTGCACCTTTGGCTGCCTGGGTGAAAGCCAATATTCAGTATTTCCCATGTCTGG
AACGAATTCATCCTTTGAAAAGTGAACAGGCAGGATTAGAAATCGAATCTGAAGAAAACTGAAGACAGAAA
AAGGAACTAGAGGAGCTTCTTAATCTGTTGGTCAAAAGGTATCAGAACTCAAAGAAAAATTTAGAGC
AGGACTTCAGAAGCTGCCAACTTGAGGCTGAAGTAAGCAAGGCACAAGAAACAATCAAAGCTGCAGAAG
TCTTAATTAATCAGCTTGACAGAGAACATAAGAGATGGAATGCACAGGTTGTAGAGATAACAGAGGAATT
AGCTACTCTTCTAAAAGAGCTCAACTTGCTGCTGCATTTATTACATATCTTTCTGCTGCTCCTGAATCT
CTGAGAAAAACCTGTTTGAAGAATGGACCAAGTCAGCTGGTCTTGAGAAATTTGATCTGAGGAGATTTT
TTTGTACTGAAAGTGAGCAGTTAATTTGAAAAGTGAAGGCCTACCATCAGATGACCTTTCCATAGAAAA
TGCTCTTGTAATATTACAGATCATTGGTTTGAATCATGGAGTCGAGTGTGCCCATTTCTTATAGATCCT
TCTTCCCAAGCTACAGAGTGGTTAAAAACACATTTGAAAGACTCACGTTTGAAGTTATCAATCAGCAGG
ATAGTAACTTTATCACAGCTCTTGAATTAGCAGTACGTTTTGGGAAAACCTTATATACAAGAGATGGA
TGGTGTAGAACCTGTTCTTTATCCATTATTGAGACGAGATCTGGTTGCTCAAGGACCACGTTATGTGGTA
CAATAGGTGACAAAATATTGACTACAATGAAGAATTCGCCTCTTTTGTCAACAAGAAACCCAAATC
CTTTTATCCACCGGATGCAGCTTCCATTGTTACTGAGGTTAACTTTACTACAACAAGAAGTGGATTACG
AGGGCAGCTTTTAGCTTTAACCATTCAGCATGAGAAACCTGATTTAGAAGAACAGAAAACAAAATTA
CAACAGGAAGAAGATAAGAAAAACAGCTAGCCAAAGCTCGAAGAATCTCTTCTAGAGCACTTGCCACAT
CTCAAGGCAATATTTTGGAAAATAAGGATTTGATTGAGTCTTTGAATCAGACAAAAGCAAGCAGTGCAC
TATTCAAGAGTCACTTAAAGAATCTTACAACTCCAAATTTCCCTTGATCAAGAACGGGATGCCTATCTC
CCCCTGGCTGAGAGTGCCAGCAAGATGACTTCAATTTTCTGATTTGTCCAAAATTAATAACATGTACC
GTTTTAGTTTGGCTGCTTTTCTCCGACTTTTCCAACGAGCTCTACAAAACAAAACAGGATTCTGAAAATAC
AGAACAGAGAATCCAGTCACTTATCAGCTCATTACAACATATGGTATATGAATATATATGCTGTTGCTA
TTTAAGGCTGATCAGTTGATGTTTCGCTTTGCATTTTGTTCGAGGCATGCATCCTGAACCTTTTCAAGAAA
ATGAATGGGATACGTTTACAGGTGTGGTGTGGAGACATGTTACGGAAAGCTGACTCTCAACAAAAAT
ACGTGATCAGCTTCCGTCTTGGATAGATCAGGAACGAAGCTGGGCCGTGGCAACATTAAGATTGCTCTC
CCCAGTCTTTATCAGACCCTCTGCTTTGAAGATGCAGCTCTGTGGCGTACTTATTATAAATCAATGT
GTGAGCAAGGATTTCCATCTATCCTTGCAAGAAAGTTTCTTATTTTCAAGCAGATTCTTGTAGTACAGGC
GCTAAGACCGGACAGATTGCAAAGTGCCATGGCTCTTTTTGCATGTAAACTCTGGGACTGAAAGAGGTG
TCCCACTGCCTCTAAATCTCAAACGTTTATACAAGAGACACTGGAAAATGAACCCATCTTGATAATTA
TTTCTCCGGTGTGATCCTTCTCAGGAACTTCAAGAAGTACTAATGCTGAAAGAAGCGGAGAGTGTTA
TCACCAGGTTGCCATGGGTCAAGGTCAAGCTGATTTAGCAATTCAAATGCTAAAAGAATGTGCCCGCAAT
GGAGACTGGCTCTGTTTGAAGAAGTACATCTTGTGGTATCTTGGCTGCCAGTTCTGAAAAGGAATTA
ATACTCTTCAACCTAAAGATAACCTTTCGCTTTGGCTCACTGCAGAAGTTCATCCCAACTTTACTCCTAT
TTTACTACAGTCAAGTCTGAAGATAACATATGAGTCACCTCCAGGTTTAAAGAAGAATTAATGCGTACT
TATGAGTCTTGGACTCCTGAGCAAAATAGCAAAAAGATAATACACATCGAGCTCATGCTCTCTTCAAGT
TTGCATGGTTTATGCTGCATGTCAAGAAAGAAGAACTATATTCTCAGGGTTGGCAAAAGTTTATGA
ATTTTCTTATCAGATCTTCCGGCTGGGTACAACATTAATGACAGACTTTTTGATGGTGCCAAAGATGTA
CAATGGGAATTTGACATGGTTTACTTGAAGTCTATTTATGGAGGACGTATAGACAACATTTTGGACC
TTAGAGTTCTTCACTACCTGAAGCAGTTTTTAAATCTTCAAGTATTGATGATTCAACCAAGGAA
CAAGAAAAGCATTTTCCATATTCGTATCTTACCACAATCCTGCAGCATTTTGGACTATCGTGTCTGTC
ATTGAGAAAATCCAGAGGACGACAACCTAGTTTCTTTGGTCTGCTGCCAATATCGCTCGCTCATCTC
AGCGCATGATCAGTTCTCAGTTATTTACAGTTGAGGATTTTGGGCAGATCCATAACAGCTGGTTCCAA
ATTTGATAGAGAAATCTGGTCTAATGAACCTTTCTCCTGCTCCTCAATCTCTGGAAGAACTAAACCAGAA
TCAAACCTAATACATCAGAAAAGTGCCTCCTCAACGATCGACAAGGATCTCCAATACTGTCATTATCA
TTCTTGAACAATTAATGCTATTCGTTTGTAGTACAAAGTGTCCACCAGTCTCTTGTGCTCTCAGCAAAGT
CATCAGAGGAAGTACTTTACTGAGTTGAGAAGTACAAAATTTGGCAAGTCTTTATTAACCAAAAAGTGT

CCTCTCGCATGGCAGAGCAAGTGGGAAGGCCAGAAAGATCCCTTACAATACCTGAGAGGTCTTGTGCC
 GTGCCCTTGAATACAGAACTGGGTAGATAAAGCTGAAAAACAGGCTCTTCTCTGAAACACTTGACCT
 ATCAGAACTTTCCATCCAGACACATTTCTTAATGCTCTTCGCCAGGAACTGCAAGGGCAGTGGTTCGT
 TCTGTGGATAGCCTTAAATTTGTAGCCTCATGAAAGGTCGACTGCAAGAAGCAAAGCTACAATTAAGA
 TCAGTGGCTTGTACTAGAAGGATGTAGTTTTGATGAAATCACTTTCTGAAATCAGCTTGATTCTCC
 CAGCGTGCATCAGTGCCTTGTGTTTTATGGGCTGGATCCACAGGATGCATGTGGTCCATATTCTCCG
 GATGAGTGCATCTCTTTCCTGTTTACACAAGTCTGAAAGGGATCGTGTGGTTACCAATATTGATGTTCC
 CATGTGGGGCAACCAAGACCAGTGGATTACAGTGTGGAGCAGCTATTCTAAAAAATCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG235409 representing NM_001080463

Red=Cloning site Green=Tags(s)

MANGTADVRKLFIFTTTQNYFGLMSELWDQPLLCNLEINNFLDDGNQMLLRVQRSDAGISFSNTIEFGD
 TKDKVLVFFKLRPEVITDENLHDNILLVSSMLESPISLQAVRQVFAPMLLKDQEWSRNFDPKLQNLSE
 LEAGLGI VLRSDTNLTKLKFEDDTRGILTPSDEFQFWEQAHRGNKQISKERANYFKELFETIAREFY
 NLDLSLLEVVDLVETTQDVVDDVWRQTEHDHYPESRMLHLLDIIGGSFGRFVQKLGTLNLWEDPYLV
 KESLKAGISICEQWVIVCNHLTGQVWQRYVPHWPKNEKYFETLTKLGRLEEVLAIRTIHEKFLYFLPA
 SEEKIICLTRVFEPTGLNPVQYNYPEPLWKAQVSYEKIIPAEQKIAGKLKNYISEIQDSPQQLLQA
 FLKYKELVKRPTISKELMLERETLLARLVDSIKDFRLDFENRCRIGPGDASGPLSGKNLSEVVNSIVWVR
 QLELKVDDTIKIAEALLSDLPGFRCFHQSAKDLLDQLKLYEQEFDWSDRIQSGLSDSRSLGCI EASSR
 IMELDSNDGLLKVHYSRDLVILLREVRQLSALGFVIPAKIQQVANIAQKFCQAIILKQVAHFYNSIDQQ
 MIQSQRPMMLQSALAFEQIINKSKAGSGGKSQITWDPNKELEGYIQKLQNAERLATENRKLKRWHTTFC
 EKVVVLMNIDLLRQQQRWKDGLQELRTGLATVEAQGFQASDMHAWKHWNHQLYKALEHQYQMGLEALNE
 NLPEINIDLTYKQGRQLFRPPFEEIRAKYYREMKRFIGIPNQFKGVGEAGDESIFSIMIDRNASGFLTIF
 SKAEDLFRRLSAVLHQHKEWIVIGQVDMEALVEKHLFTVHDWEKNFKALKIKGKEVERLPSAVKVDCINI
 NCNPVKTVIDDLIQKLDLLVLSLKKSIQAHLEIDTFVTEAMEVLTIMPQSVIEIGDANLQYSKLQERK
 PEILPLFQEAEDKNRLLRTVAGGLETISNLKAKWDFELMMESHQLMIKDQIEVMKGNVKSRQIYYQE
 LEKFKARWDQLKPGDDVIETGQHNTLDKSAKLIKEKKIEFDDLEVTRKLLVDDCHHFRLPEEPNFSASSI
 SKDIESCAQIWAIFYEEFQQGFQEMANEDWITFRKTYLFEFLMNWHDRLRKEEHSVMTVKLQSEVDKY
 KIVIPILKYVRGEHLSPDHWLDFRLLGLPRGTSLEKLLFGDLLRVADTVAKAADLKDLSRAQGEVTI
 REALRELDLWGVGAVFTLIDYEDSQSRMMLIKDWKDIVNQVGDNRCLLQSLKDSPPYKGFEDKSVIWER
 KLAELDEYLQNLNHIQRKWVYLEPIFGRGALPKEQTRFNVRDEDFRSIMTDIKKDNRVTTLTTHAGIRNS
 LLTILDQLQRCQKSLNEFLEEKRSAPRFYF IGDDDLLEILGQSTNPSVIQSHLKKLFAGINSVCFDEKS
 KHITAMKSLGEVVPFNKVPLSNNVETWLNLDLAL EMKKTLEQLLKECVTTGRSSQGAVDPSLFPQSILC
 LAEQIKFTEDVENAIKDHSLHQIETQLVNKLEQYTNIDTSSDPGNTESGILELKLKALILDIHNDV
 KQLNQIQVHTTEDWAWKKQLRFYMKSDHTCCVQMVDFSEFYTYEQGNASKLVYTPLTDKCYLTLTQAMK
 MGLGGNPYGPAGTGKTESVKALGGLGRQVLFNCDGEGIDVKSMGRIFVGLVKCGAWGCFDEFNRLEESV
 LSAVSMQIQTIQDALKNHRTVCELLGKEVEVNSNSGIFITMNPAGKGYGGRQKLPDNLKQLFRPVMASHP
 DNELIAEVILYSEGFKDAKVL SRKLVAFNL SRELLTPQQHYDWGLRALKTVLRGSGNLLRQLNKS GTTQ
 NANESHI VVQALRLNTMSKFTFTDCTRFDALIKDVFPGIELKEVEYDEL SAALKQVFEEANYEII PNQIK
 KALEL YEQLCQRMGVVIVGSPGAGKSTLWRMLRAALCKTGKVVQYTMNPKAMPYQLLGHIDMDTREWS
 DGVL TNSARQVREPQDVSSWII CDGIDPEWIESLNSVLDNRLTMPSGERIQFGPNVNFVFETHDLS
 CASPATISRMGMIFL SDEETDLNSLIKSWLRNQPAEYRNLENWIGDYFEKALQWVLKQNDYVVETSLVG
 TVMNGLSHLHGCRDHDEFIINLIRGLGGNLMKSRL EFTKEVFHWARESPDPDFHKPMDTYDSTRGLAT
 YYLKKPEDLTADDFSNGLTLPVIQTPDMQRGLDYFKPWLSSDTKQPFILVGPPEGCGKMLLRYAFSQLRS
 TQIATVHCSAQTTSRHLLQKLSQTCMVISTNTGRVYRPKDCERLVLYLKDINLPKLDKWTSTLVAFLQQ
 VLTQYQGFYDENLEWVGLNIQIVASMSAGGRLGRHKL TTRFTSIVRLCSIDYPEREQQTIIYGAYLEPVL
 HKNLKNHSIWGSSSKIYLLAGSMVQVYEQVRAKFTVDDYSHYFFTPCILTQWVGLFRYDLEGGSSNHPL
 DYVLEIVAYEARRLFRDKIVGAKELHFDIILTSVFQGDWGSIDLNMSDSFYVTWGARHNSGARAAPGQ
 PLPPHGKPLGKLNSTDLKDVIKKGLIHYGRDNQNDILLFHEVLEYMSRIDRVL SFPGGSLLAGRSGVG
 RRTITSLVSHMHGAVLFSPKISRGYELKQFKNDLKHVLQLAGIEAQVVLLEEDYQFVHPTFLEMINSLL

SSGEVPLGLYTLLELEPLLLPLKDAQSQDGFPGPVFNFTYRIQQNLHIVLIMDSANSNFMINCENPALH
 KKCVLWMEGWSNSSMKKIPPEMLFSETGGGKYNDDKKRKEEKKNSVDPDFLKSFLLIHESCKAYGATPS
 RYMTFLHVYSAISSSSKKKELLKRQSHLQAGVSKLNEAKALVDELNRKAGEQSVLLKTKQDEADAALQMIT
 VSMQDASEQKTELERLKHRIAEEVVKIEERKNKIDDELKEVQPLVNEAKLAVGNIKPESLSEIRSLRMP
 DVIRDILEGVLRLMGIFDTSWVSMKSFLLAKRGVREDIATFDARNISKEIRESVEELLFKNKGSFDPKNAK
 RASTAAAPLAAWVKANIQYSHVLERIHPLLETEQAGLESNLKKTEDRKRKLEELLNSVGQKVSSELKEKFQS
 RTSEAAKLEAEVSKAQETIKAAEVLINQLDREHKRWNAQVVEITEELATLPKRAQLAAAFITYLSAAPES
 LRKTCLEEWTKSAGLEKFDLRRFLCTESEQLIWKSEGLPSDDLSTENALVILQIIIGLKSWSRVCFIDP
 SSQATEWLKTHLKDSRLEVINQQDSNFITALELAVRFGKTLIIQEMDGVPEPVLPLLRRDLVAQGPYVYV
 QIGDKIIDYNEEFRLFLSTRNPNPFIIPDAASIVTEVNF TTRSGLRGQLLALTIQHEKPDLEEQTLL
 QQEEDKKIQLAKLEESLLETATSQGNILENKDLIESLNQTKASSALIQESLKEYLQISLDQERDAYL
 PLAESASKMYFIISDLKINMYRFSLAFLRFLQRALQNKQDSENTEQRIQSLISSLQHMVVEYICRCL
 FKADQLMFALHFVRGMHPELFQENEWDTFTGVVVDMLRKADSQQKIRDQLPSWIDQERSWAVATLKIAL
 PSLYQTLCFEDAALWRYYNNSMCEQEFPSILAKKVSLFQQILVVQALRPDLQSAMALFACKTLGLKEV
 SPLPLNLKRLYKETLEIEPILIIISPGADPSQELQELANAERSGECYHQVAMGQGDALAIQMLKECARN
 GDWLCCLKNLHLVVSWLPVLEKELNTLQPKDTFRLWLTAEVHPNFTPILLQSSLKITYESPPGLKKNLMRT
 YESWTPQISKKDNTHRAHALFSLAWFHAACQERRNYIPQGWTKFYEFSLSDLRAGYNIIDRLFDGAKDV
 QWEFVHGLLENAIYGGRIDNYFDLRLVLSYLKQFFNSSVIDVFNQRNKSIFPYSVSLPQSCSILDYRAV
 IEKIPEDDKPSPFFGLPANIARSSQRMISQVISQLRILGRSITAGSKFDREIWSNELSPVLNLWKKLNQN
 SNLIHQKVPVPPNDRQGSPILSFIIIEQFNAIRLVQSVHQSLAALSKVIRGTTLLSSEVQKLASALLNQK
 PLAWQSKWEGPEDPLQYLRGLVARALAIQNWVDKAEKQALLSETLDLSELFHPDTFLNALRQETARAVGR
 SVDSLKFBVSWKGRLEAKLQIKISGLLLEGCSFDGNQLSENQLDSPSVSVLPCFMGWIPQDACGPYSP
 DECISLPVYTSAERDRVVTNIDVPCGGNQDQWIQCGAALFLKNQ

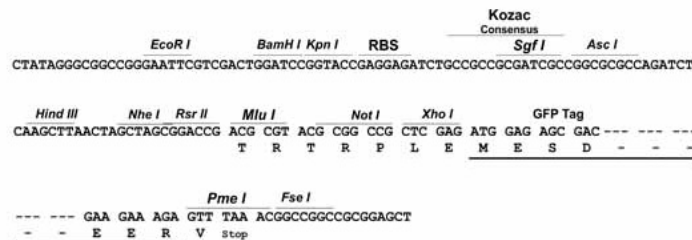
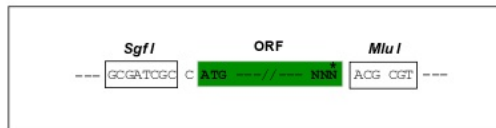
TRTRPLE - GFP Tag - V

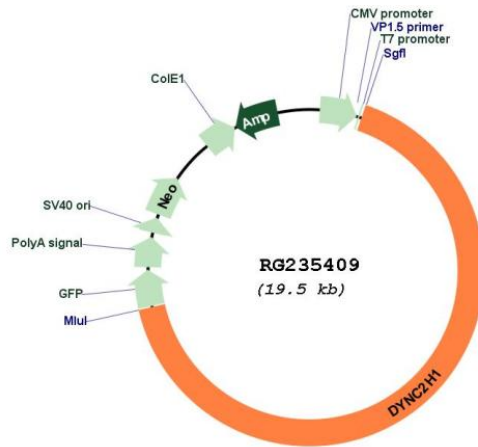
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001080463

ORF Size: 12942 bp

OTI Disclaimer: 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.

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.

RefSeq: [NM_001080463.2](#)

RefSeq Size: 13699 bp

RefSeq ORF: 12945 bp

Locus ID: 79659

UniProt ID: [Q8NCM8](#)

Cytogenetics: 11q22.3

Gene Summary: This gene encodes a large cytoplasmic dynein protein that is involved in retrograde transport in the cilium and has a role in intraflagellar transport, a process required for ciliary/flagellar assembly. Mutations in this gene cause a heterogeneous spectrum of conditions related to altered primary cilium function and often involve polydactyly, abnormal skeletogenesis, and polycystic kidneys. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Jan 2010]