

Product datasheet for **RG214647**

C12orf35 (KIAA1551) (NM_018169) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C12orf35
Synonyms:	C12orf35; GET; KIAA1551; UTA2-1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214647 representing NM_018169
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTGGAATGAAAAACCAAGAGTGCTACATTACCACCACTGTATCCTAAAAGCCAGCCACCTTTT
TGCACCACTCTTTAATAAACCAAAATTACCACAACATCTCAGAGTTCTTTTCTGCTGGAAGTAACCA
AGAAGCATGCATGTATCCCGTAATTCAAATCCAATTTACAGCCACTGCTGAATATCCAAAATTATCCT
CAACAAATTTCTGTTTCTGATATGCATAATGGGACAGTTGTGGCTCACACACTTCAGTAGAAGAATAA
CATATGCAAAATGTTAATGGACCAACAACTAACTCACAATTTGCAGATGTCTTCAGGAGTTACCCAAA
CGTATGGTTGAACTACCAATGAGGAATCCTGTGATTCTCATATAGGGGCAACTGTATCTCATCAA
GATTTTGGAGCTAACGTACCAATATGCCGGCACTACAGAGTCAACTGATAACATCAGATACCTATTCTA
TGCAATGCAGATGATCCCTTCTAATTTACACGACTTCTGTAGCTTACCAAGGAAATCAGGGACTTAA
CCAGTCTTTTTCTGAGCAACAGGTTGATTGGACACAACAGTGTATATCTAAGGGACTGACTTACCCAGAT
TACAGACCACCTCCAAAGCTATACCGTTACTCACCACAAGCTTTTACCAGATTCTACCATTCAAAAC
AAAACCTTTATACCACATACATCATTGCAAGTAAAAATAGTCAGCTTCTAAATCTGTATTAACCTTTACC
ATCAAGGCAGACCTCAGCTGTACCATCACAGCAGTATGCCACGCAAACTGACAAAAGACCTCCTCCTCT
CCTTACAACCTGTAGATATGGAAGCCAGCCTTTGCAAGTACTCAGCATATTACTAAACACTGTGCTATGG
AAGTTCTCAGAGTCGAGAAATGCTGTCTGAAATAAGGACCAGCTTTCAACAGCAGTGGCAAAACCC
TAATGAAAATGTCAGCACAATGGAATTTCACTAAGTAAAGTAAATACCAACAGCAACAGCCTTTT
AACAGTCCCATTAGATCTTCTGTGGATGGTGTTCAGACTCTTGCTCAAATAATGAAGAGAAAATATGG
ATTCTTGCAATCCAATTCAAATCAAGTACTGGACACAAGTGTGCAAAAGAAAAGCTAGTAAGGGATAT
TAAACATTAGTAGAGATAAAACAGAAGTTTTCAGAACTTGAAGGAAAATTAATCAATAAGATCTT
TTGATGGCAGCAGGTTGATTAATAATGACTAATACTTCTTATAGTGAACAGCTCAGAAATCTAAATGT
CTCTAAACAACTGCCAAAATCCAGTCTGGACCCAGATAACTCCAGTAATGCCAGAGAATGCAGAGAG
ACAAACACCAACAGTAGTGGAATCTGCAGAAACAAATAAGACTCAATGTATGTTGAATCTGACATTGAG
GAAGTCAATTGCAGAAAGTTTAACCAAGTTGATTCTGTTTTACCAATCTGTCTATTCTGAAAAGCGGC



CAATGCCAGACCCATCTCATGATGTGAAAGTTCTCACTTCAAAGACATCAGCTGTTGAGATGACCCAGGC
AGTATTGAATACTCAGCTTTCATCAGAAAAATTACCAAAGTTGAGCAAAATCACCAGCAGTTTGTGAA
ACAATTTCTGTTCCCAAGTCCATGTCCACTGAGGAATATAATCAAAATTCAAATGAAAAATGCTAC
TTCTCGCTTTGCTTTCACAGGCACGTAAGACTCAGAAGACAGTATTAAAAAGATGCTAATCAAACATTCA
GGATTCTAAACCAGACAGTTGTGAAATGAATCCAAATACCCAAATGACTGGTAACCAACTGAATTTGAAG
AACATGGAAACTCCAAGTACTTCTAATGTAAGTGGCAGGGTTTGGACAACCTTTTGCAGTGGACAAG
AATCCTCAACAAAAGGAATGCCTGCTAAAAGTGACAGTAGCTGTTCCATGGAAGTGTAGCAACCTGTCT
TTCCCTGTGGAAAAAGCAACCTTCAGATACTGCAAAAGAAAAGGAGTGTGATAAACTCAGAACAAACACA
ACAGCAGTTGGAATTTCAAGCCTGCTAACATCCACGTTAAGAGTCCTTGTTCAGTTGTGGGAAATTCAA
ATTCTCAGAATAAAATAAGTAATCCCTCACAGCAGACAGCTTTGTGATGGTAATGCACAATTATGAGTC
TTCAGGTATAAATATAACAAAGGGAACAGAACTTCAGATAGCTGTAGTGTACCGTTAGTTCTGTGACAG
GTCAAAACATTGTCTGTCAAAGGAATAACACCTGCAGTGTTACCTGAAACAGTGTATCCCGTTATTAAAG
AAGGCAGTGTTTGAGTTTACAAAATCAATTGGCAGAAAAATGCAAAGGCAACTGCTGCTTTGAAAGTTGA
TGTTAGTGGACAGTAGCAAGTACAGCAACATCAACCAAGATTTTTCCCTAACTCAGAAGGAAAAGCAG
AATGAGTCAACTAATGGTAATTCAGAAGTACACCTAATGTCAATCAAGGAAAAGCATAACAAATTAGAGT
CAGCTATCCATTCTCTATGAACGATCAGCAAACTCACAGGAGTCAAGGAATAGTACTGTTGTGAGTAG
TGATACATTACAGATTGACAATATTTGTTCTCTGGTTGAAGGTGATACCTTTACAATTCCTCAATAGCA
AAGATATTCAGCTCTTCTCCCTTGAAGTGGTTGAGCCACAGAAACCTTCTCTACCAATCAGCAAGGGA
TTGGCAGCAGAGAACGAGAAAAACAATTAGATAATACCACTGAAAAAAGACTTTGGTTTTCAAAAAGA
TAAACCTGTACAGTGCACAGATGTTTACATAAAAATATGTGATCAGTCAAAGTCAGAGCCACCTTAGAG
TCATCTTTTAAATCTTGAACAAACAGAGTTATTCTAGAGAAAAGTAGTTTGGAGCATGCCACTGAAA
AAAGCAGAGCTAACGATACGTGCTCGTCAGCTGCTATTGAGGAGGATTTTACCCTCAGGAAATAGATGC
ATCCAGCACTATACTCCCAAGATCCTGCAAGAAATGAAATCCACAGTATAAGGCACCTGTCTTATAC
CTACATGACCAGCTGTGCAAGCTTCTAAAAGAGTTTCTTATGGCATTGAGGCTGTGAATACACGTGAAG
GTTCTGTGGGCCAGCAACTACATACCAGACCTCAGAAGATCAAATGCTGATAAAACAGTTCTGACTC
CAAAGACCCAGCAGATCAATACAAATTACAATATTAAGCTCAGAGCAATGAAAGAAATATTTCTGAA
CAGGATGATCAACCCTATGTAGTAGACAAGTTGGCAGAACCTCAGAAAGAGAGCCCATCAGAGAAGTAG
TTAGCCAGTGTGACCTGCAGGCACCTGCAGCTGGACAAAGTCGTGATTCTGTGATACTGGACTCTGAGAA
AGATGATATCCACTGCTGTGCTTGGGCTGGCTCTCCATGGTTTACGAAGGAGTACCCAGTGTCAGTGT
AATTCCATCAAGAACTCATCTTCAGAGGAAGAGAAAACAAAAGAGCAGTGTCTCTTTGGATACCAACA
GTTGTAACAAGGAGAGAGAACTTCTGATAGAGATGCTACTGTTGTTCAATTTAAGAGCCTTGTAATAA
TCCAAAGACTCCTCCAGATGGGAAAAGTCATTTTCTGAACTACAAGACGACGTAGAAAAGATACACCC
AAAACAAAACATAAAAGCTTACCAAGGACAGAACAAAGATTAGTTGCTGGTCAGTTTTCATCTAAATGTG
ATAAACTAAATCCCTTGCAAAATCACAAAAGAAAAAATTGAGGTTTACGAGGTAACCTTTCACTCCAG
TAATAAAATGACAGCATCTTATGAACAAGCTTCTCAGGAAACCCGACAGAGAAACATGTAAACAGAAC
TCACGTCCACTAAAAACAAAACAGCTTTTTTGGCAAAATAAAGATGTGTATAAGAAGCATAGTTCTTTGG
GACAGTCATTATCACCAGAAAAGATAAAATTGAACTCAAATCAGTTAGCTTCAACAAAAACGAAAGTT
AGACCAAGGGAACGTATTAGATATGGAAGTAAAGAAAAAGAAACATGATAAACAAGAACAGAAAGGAAGT
GTGGGAGCTACATTCAAATTAGGTGACTCTTTGTCAAAACCAACGAAAGAGCCATTGTTAAGAAAAGA
TGGTATCAAATACTAAGTCTGTAGACACGAAAGCGAGTTTCTCTAAATTTAGTAGAATTCTAACTCCTAA
GGAGTATTTACAAAGGCAGAGCATAAAGAAGCTCTGAGTAATAAAGCATCGAAGAAAATCTGTGTGAAA
AACGTGCCATGTGATTCTGAACATATGAGACCAAGTAACTTGCCGTGCAGGTTGAAAGTTGTGGGAAAT
CAAATGAGAAACACAGCAGCGGCTGCAGACCTCTAAGAATCATTAAATGGCTTGACAAGCCATGGTAA
AAACCTCAAAATCCACCTTCTCAGGAGTCTAAACATACAACATTCTAAGGAATGTTAAAGAAAAAGTT
GGTGGGAAGCAGCTGATAAAATATGGATTGATAAGACTAAATTAGACAAATTAACCAATATAAGCAACG
AAGCTCAATTCAGCCAATGCCTCCCAAGTAAAGGATCAAAGAAATTATATCTGAATAGAGTTGGGTT
TAAATGCACTGAACGTGAAAGCATTCTCTACCAAAATAGAAAGTTACCCAGGAAGCTTCATAAGAT
AAGAGACAGGAAAAATAACATAAGACCTTTTTACCGGTGAAAGGTAAACAGAAAAATCAAACATGCTGG
AGTTTAAATATATGCCAGATATCTTACTAAGAATACAACTCTGTGGAAGAACGGAAGGATGTAAGCC
TCATCTAGGAAGGAGCAAGCCCTCTGCAAGTTTCAGGAATAAAAGTACAAAAGAGACTGGTTAAAA
TTTGTGCTACAAAGAAAAGGACAGAAAGACAGCCAAGAGAGAGATAATGTTAATTCAAGACTCTCGA
AGAGAAGCTTCAGTGCAGATGGATTGTGAGATGCTACAAAACCAAGTAAAGATTCAAAAGAAATGTTTCA
AACCTACAAACAGATGTACCTGGAGAAGAGAAGCAGAAACCTTGGTAGCAGTCTGTAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214647 representing NM_018169

Red=Cloning site Green=Tags(s)

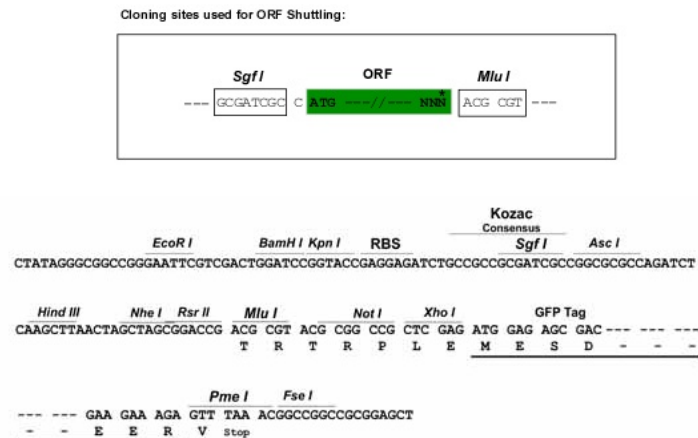
MNWNKPKSATLPPLYPKSPFPFLHQSLINQITTTSSQSSFSYPGSNQEACMYPGNSNPISQPLLNIQNY
 QQISVSDMHNGTVVASHTSVERITYANVNGPKQLTHNLQMSSGVTQNVWLNSPMRNPVHSHIGATVSHQT
 DFGANVPNMPALQSQLITSDTYSMQMQMIPSNSTRLPVAYQGNQGLNQSFSEQQVDWTQCCISKGLTYPD
 YRPPPKLYRSPQSFPLPDSTIQKQNFIPHTSLQVKNSQLLNSVLTLPSRQTSAPVSQQYATQDKRPPPP
 PYNCRYGSQPLQSTQHITKHLMEVPQSRMLSSSEIRTSFQQQWQNPENNVSTIGNFTNLKVNTNSKQPF
 NSPIRSSVDGVQTLAQTNEEKIMDSNPTSNQVLDTSVAKEKLVRDIKTLVEIKQKFSSELARKIKINKDL
 LMAAGCIKMTNTSYSEPAQNSKL SLKQTAKIQSGPQITPVMPEAERQTPTVVESAETNKTCMLNSDIQ
 EVNCRFRNQVDSVLPNPVYSEKRPMPDP SHDKVLTSKTSAVEMTQAVLNTQLSSENVTKVEQNSPAVCE
 TISVPKSMSTEEYKSKIQENMLLLALLSQARKTQKTVLKDANQTIQDSKPDSCMNPNMTQMTGNQLNLK
 NMETPSTSNVSGRVLDSNFCSGQESSTKGMPAKSDSSCSMEVLATCLSLWKKQPSDTAKEKECDKLRTNT
 TAVGISKPANIHVKSPCSVVGNSNSQNKISNPSQQTALSMVMHNYESSGINITKGTQLIAVVSPLVLE
 VKTLSVKGITPAVLPEVYPIKEGSVCSLQNLQLAENAKATAALKVDVSGPVASTATSTKIFPLTQKEKQ
 NESTNGNSEVTPNVNQGHKHLKESAIHSPMNDQQISQESRNSTVVSDDLQIDNICSLVEGDTSYNSQIA
 KIFSSLPLKMVEPQKPSLPNQGGIGSREPEKQLDNTTENKDFGFKDKPVQCTDVSHKICDQSKSEPPLE
 SSFNLEETNRVILEKSSLEHATEKSTANDTCSAAIQEDIYPQEIADASSNYTPQDPARNEIHSDKAPVLY
 LHDQLSELLKEFPYGIEAVNTREGSVGQQTYYTQSDQADKTSDDSKDPADQIITILSSEQMKEIFPE
 QDDQPYVVDKLAEPQKEEPITEVVSQCDLQAPAAQSRDSVILDSEKDDIHCCALGWL SMVYEGVPQCQC
 NSIKNSSSEEEKQKEQCSPLDTNSCKQGERTSDRDVTVVQFKSLVNNPKTPPDGKSHFPELQDDSRKDT
 KTKHKS LPRTEQELVAGQFSSKCDKLNPLQNHKRKLRFEVTFHSSNKMTASYEQASQETRQKKHVTQN
 SRPLKTKTAFLPNKDVIYKHHSSLGQSL SPEIKLKLKSVSFKQKRKLDQGNVLDMEVKKKKHDKQEQKGS
 VGATFKLGDSL SNPNRAIVKEKMSVNTKSVDTKASSSKFSRILTPKEYLQRQKHKEALSNKASKKICVK
 NVPCDSEHMRPSKLAVQVESC GKSNKHS SGVQTSKESLNGLTSHGKNLKIHHSQESKTYNILRNVKEKV
 GGKQDPDKIWKTKLDKLTNISNEAQFSQMPQVKDQKKLYLNRVGFKCTERESISLTKLESSPRKLHKD
 KRQENKHKTF L PVKGNTEKSNMLEFKLCPDILLKNTNSVEERKDVKPHPRKEQAPLQVSGIKSTKEDWLK
 FVATKKRTQKDSQERDNVNSRLSKRSF SADGFEMLQNPVKDSKEMFQTYKQMYLEKRSRSLGSSSPVK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_018169

ORF Size:	5241 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_018169.3 , NP_060639.3
RefSeq Size:	6246 bp
RefSeq ORF:	5244 bp
Locus ID:	55196
UniProt ID:	Q9HCM1
Cytogenetics:	12p11.21
Gene Summary:	Plays a role in the regulation of imprinted gene expression, regulates repressive epigenetic modifications associated with SETDB1. Required for the recruitment or accumulation of SETDB1 to the endogenous retroviruses (ERVs) and maintenance of repressive chromatin configuration, contributing to a subset of the SETDB1-dependent ERV silencing in embryonic stem cells.[UniProtKB/Swiss-Prot Function]