

Product datasheet for **RG217206**

MED12 (NM_005120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MED12 (NM_005120) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MED12
Synonyms:	ARC240; CAGH45; FGS1; HOPA; Kto; MED12S; OHDOX; OKS; OPA1; TNRC11; TRAP230
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217206 representing NM_005120 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACAAAGTATGCCCTCTCTTCACACAAAAAATTCTATTCTGTTATTTTCACTTAACAAACAGCT
GGTGCCTCCGGCCTACGGGCTGGGCAAGATGGCGCCTTCGGGATCTTGAGCTACGAACACCGGCCCT
GAAGCGCCGCGGCCGCGCTGGGGCTCCCGATGTTTACCCTCAGGACCCAAACAGAAGGAGGATGAA
CTGACGGCCTTGAATGTAACAAGGTTTCAATAACCAGCCTGCTGTCTCTGGGATGAGCATGGCAGTG
CCAAGAAGCTCAGCTTCAATCCTGCCAAGATCAGTTCCAATTACAGCAGCATTATTGCAGAGAAATTACG
TTGTAATACCCTTCTGACACTGGTCGAGGAAGCCCAAGTGAACCAGAAGGATAAATTCTGGCTGGTG
ACTGCACGATCCCAGAGTGCCATTAACACTTGTTCACTGACTTGGCTGGCACCAGCCACTCACGCAAC
TAGCCAAAAGGTCCCATTTTCAGTAAGAAGGAAGAGGTGTTTGGGTAAGCCAAATACACAGTGCC
TGTGATGCGGGCTGCCTGGCTCATTAAAGATGACCTGTGCCTACTATGCAGCAATCTTGAGACCAAGGT
AAGAAGAGACATGTTGACCCTTTCATGGAATGGACTCAGATCATCACAAGTACTTATGGGAGCAGTTAC
AGAAGATGGCTGAATACTACCGCCAGGGCCTGCAGGAAGTGGGGCTGTGGTCCACGATAGGGCCCT
GCCCCATGATGTAGAGGTGGCAATCCGGCAGTGGGATTACCCGAGAAGCTGGCCATGTTTCATGTTTCAG
GATGGAATGCTGGACAGACATGAGTTCCTGACCTGGGTGCTTGTGTTTGGAGAAGATCCGCCCTGGAG
AGGATGAATTGCTTAAACTGCTGCTGCCTGCTTCTCCGATACTCTGGGAATTTGTTTCAGTCTGCATA
CCTGTCCCGCGCTTGCTACTTCTGTACACGGAGACTGGCCCTGCAGCTGGATGGTGTGAGCAGTCAC
TCATCTCATGTTATATCTGCTCAGTCAACAAGCAGCTACCCACCACCCTGCTCCTCAGCCCCAACTA
GCAGCACACCCTCGACTCCCTTATGACCTGCTTATGTGCCCTCAGCACCAGCCCTGGTTTTTGGCCT
CAGCTGTATCCTACAGACCATCCTCCTGTGCTGTCTAGTGCCTTGGTTTGGCACTACTCACTGACTGAT
AGCAGAATTAAGACCGGCTCACCCTTGACCCTTGCCCTATTGCCCGTCCAACCTGCCATGCCAGAGG
GTAACAGTGCCTCACTCAGCAGGTCCGTGCAAGTTGCGGGAGATCGAGCAGCAGATCAAGGAGCGGGG
ACAGGCAGTTGAAGTTCGCTGGTCTTTCGATAAATGCCAGGAAGTACTGCAGGCTTACCATTGGACGG



[View online »](#)

GTACTTCATACTTTGGAAGTGCTGGACAGCCATAGTTTTGAACGCTCTGACTTCAGCAACTCTCTTGACT
CCCTTTGTAACCGAATCTTTGGATTGGGACCTAGCAAGGATGGGCATGAGATCTCCTCAGATGATGATGC
TGTGGTGTATTGCTATGTGAATGGGCTGTGAGCTGCAAGCGTTCTGGTCGGCATCGTGCTATGGTGGTA
GCCAAGCTCCTGGAGAAGAGACAGGCGGAGATTGAGGCTGAGCGTTGTGGAGAATCAGAAGCCGAGATG
AGAAGGGTTCCATCGCCTCTGGCTCCCTTTCTGCTCCCAGTGTCCCATTTTCCAGGATGCTCCTCTGCA
GTTTTCTGGATAACACAGGCTCCCATGCTGACGGACCCTCGAAGTGAGAGTGAGCGGGTGAATTCTTTAAC
TTAGTACTGCTGTTCTGTGAAGTATTGACATGATGTTTTCTCCACAACATGTATACTTGCACCTCTCA
TCTCCCGAGGGGACCTTGCCCTTTGGAGCCCTGGTCCCCGGCCTCCCTCTCCCTTTGATGATCCTGCCGA
TGACCCAGAGCACAAGGAGGCTGAAGGCAGCAGCAGCAAGCTGGAAGATCCAGGGCTCTCAGAACTCT
ATGGACATTGACCCTAGTTCAGTGTCTCTTTGAGGACATGGAGAAGCCTGATTCTCATTGTTCTCCC
CTACTATGCCCTGTGAGGGGAAGGGCAGTCCATCCCCTGAGAAGCCAGATGTCGAGAAGGAGGTGAAGCC
CCCACCAAGGAGAAGATTGAAGGGACCCTTGGGGTCTTTACGACCAGCCACGACACGTGCAGTACGCC
ACCCATTTTCCCATCCCCAGGAGGAGTATGCAGCCATGAGTGAACCCAGCGGTGGTCTGACTGTTTGG
GGGTGGGAAAGCAGCGAGATGATGCCCGCCATGCCATCAAGAAAATCACCAGGATATCTTGAAGTTCT
GAACCGCAAAGGGACAGCAGAACTGACCAGTCTGCTCCTATTGTGCTCTGAATCCTGGAGACCTGACA
TCTTAGGTGGGAGGATGGGCAGAAGCGGCGACGCAACCGGCCTGAAGCCTTCCCCTGCTGAAGATA
TCTTTGCTAAGTTCAGCACCTTTCACATTATGACCAACACCAGGTACAGGCTCAGGCTCTCCCGAATGT
TCTGGAGCAGATCACGAGCTTTGCCCTTGGCATGTATACCACTTGCCTCTGGTGCAGCATGTGCAGTTC
ATCTTCGACCTCATGGAATTTCACTCAGCATCAGTGGCCTCATCGACTTGGCATTGAGCTGCTGAATG
AACTGAGTGTAGTTGAGGCTGAGCTGCTTCTCAAATCCTCGGATCTGGTGGGAGCTACACTACTAGCCT
GTGCTGTGCATCGTGGCTGTCTGCGGCACTATCATGCCTGCCTCATCTCAACCAGGACCAGATGGCA
CAGGCTTTTGGGGGCTGTGTGGCGTGTGAAGCATGGGATGAACCGTCCGATGGCTCCTCTGCGAGAGC
GCTGTATCCTTGTATCTATGATGTACACCTCCTGTAGCCATTTAAGAACAATAATTTGGGAGCT
CTTCAGGCACTTTTGTCTCAAAGGTGAAGAACACCATCTACTGCAACGTGGAGCCATCGGAATCAAATATG
CGCTGGGCACCTGAGTTCATGATCGACACTCTAGAGAACCCTGCAGCTCACACCTTACCTACACGGGGC
TAGGCAAGAGTCTTAGTGAGAACCCTGTAACCCTACAGCTTTGTGCAATGCCCTTATGCAGTCTG
TGTGGGGCACCATGATCCCGATAGGGTGAATGACATCGCAATCCTGTGTGCAGAGCTGACCGGCTATTGC
AAGTCACTGAGTGCAGAATGGCTAGGAGTGCTTAAGGCCTTGTGCTGCTCCTTAACAATGGCACTGTG
GTTTCAACGATCTCCTCTGCAATGTTGATGTGAGTGCATCTTTTTCATGACTCGTGGCTACTTTTGT
TGCCATCCTCATCGCTCGGCAGTGTGCTCCTGGAAGATCTGATTGCTGTGCTGCCATCCCTTCACTC
CTTAATGTGCTTGTAGTGAACAGGACTCTGAGCCAGGGGCCGCTTACCTGCCGATCCTCCTTCACTC
TTTTCAAGACACCGCAGCTCAATCCTTGCCAGTCTGATGGAAACAAGCCTACAGTAGGAATCCGCTCCTC
CTGCGACCCGCACCTGCTGGCTGCCTCCAGAACCGCATCGTGGATGGAGCCGTGTTTGTGTTCTCAAG
GCTGTGTTTGTACTTGGGGATGCGGAAGTAAAAGGTTTCAAGCTTCACTGTGACAGGAGGAACAGAAGAAC
TTCCAGAGGAGGAGGGAGGAGGTGGCAGTGGTGGTCCGAGGCAGGGTGGCCGCAACATCTCTGTGGAGAC
AGCCAGTCTGGATGTCTATGCCAAGTACGTGCTGCGCAGCATCTGCCAACAGGAATGGGTAGGAGAACGT
TGCTTAAAGTCTCTGTGTGAGGACAGCAATGACCTGCAAGACCCAGTGTGAGTGTGCCAGGCGCAGC
GCCTCATGCAGCTCATTGCTATCCACATCGACTGCTGGACAATGAGGATGGGGAAAACCCCGAGCGCA
GCGCATAAAGCGCATTCTCCAGAAGTGGACCAGTGGACCATGCGCCAGTCTTCTTGGAGTGCAGCTC
ATGATCAAGCAGACCCCTAAACAATGAGATGAACTCCCTCTTGGAGAACATCGCCAAGGCCACAATCGAGG
TTTTCCAACGGTCAAGCAGAGACAGGGTCTCTTCTGGAAGTACTGCAAGCAACATGCCAGCAGCAGCAA
GACCAAGCCTGTGCTCAGCTCTCTAGAGCGCTCTGGTGTATGGCTGGTGGCCCCCTCATTGCTAAACTG
CCCACCTCAGTCCAGGGACATGTGTTAAAGGCTGCTGGGGAAGAATTGGAGAAGGGTCAACCTGGGTT
CCTCTTACGCAAAAGACGTGATCGACAAAAGCAGAAGAGCATGTCCCTATTGAGCCAGCAGCCCTTCTT
ATCGTGGTGCTAACATGTCTGAAAGGGCAGGATGAACAACGCGAGGGACTCCTTACCTCCCTTACAGC
CAGGTGCACCAGATTGTGAATAATTGGCGAGATGACCAGTACTTAGATGATTGCAAACCAAAGCAGCTTA
TGCATGAGGCACTCAAAGTGCAGGCTCAACCTGGTGGGGGGCATGTTTACACGGTGCAGCGCAGCAGCCCA
GCAGACCAGGAGTGGGCCATGCTCCTCCTGGAGATCATCATCAGCGGCACTGTGCAGATGCAGTCCAAC
AATGAGCTCTTCACTACTGTGTTGGACATGCTGAGCGTGTCTCATCAATGGGACATTGGCTGCAGACATGT
CTAGCATCTCGCAAGGTAGCATGGAGGAAAACAAGCGTGCATACATGAACCTGGCGAAGAAGTTGCAGAA
GGAGTTGGGGGAGCGCCAGTCAAGACAGTCTGAAAAGGTTTCGCCAGTGTGCCACTGCCAAGCAGACCC
CGAGATGTCATCACGTGTGAGCCACAGGGCTCCCTTATCGATACCAAGGGCAACAAGATTGCTGGCTTCG

ATTCCATCTTCAAGAAGGAGGGTCTACAGGTTTCCACCAAACAGAAGATCTCGCCCTGGGATCTTTTTGA
GGGGTTGAAGCCGT CAGCACCCTCTCTTGGGGCTGGTTTGAACAGTCCGAGTGGACCGGCGAGTGGCT
CGAGGAGAGGAGCAGCAGCGGTTGCTGCTCTACCACACACACCTGAGGCCCGGCCCGCGCTATTACC
TGGAGCCACTGCCACTGCCCCAGAAGATGAGGAGCCGCTGCTCCTACCCTGCTAGAGCCTGAGAAAAA
GGCTCCAGAGCCCCAAAACGACAAACCGGGGGCTGCTCCACCAGTACTGAGGAACGCAAGAAGAAG
TCCACCAAGGGCAAGAAACGCAGCCAGCCAGCTACCAAGACAGAGGACTATGGAATGGGCCGGGTCGGA
GCGGCCCTTATGGTGTGACAGTGCCTCCGGACCTCCTGCACCACCAAACCTGGTTCTATAACACACCT
TAACTACAGGCAAGGCTCCATAGGCCTGTACACCAGAACCAGCCACTACCTGCAGGTGGCCTCGTGTG
GACCCATACCGTCTGTGCGCTTACCAATGCAGAAGCTGCCACCCGACCAACTTACCCTGGAGTGTGC
CCACAACCATGACTGGCGTCATGGGTTTAGAACCTCCTCTTATAAGACCTCTGTGTACCGGCAGCAGCA
ACCTGCGGTGCCCAAGGACAGCGCCTTCGCCAACAGTCCAGCAGAGTCAGGGCATGTTGGGACAGTCA
TCTGTCCATCAGATGACTCCCAGCTCTTCTACGGTTTGCAGACTTCCAGGGCTATACTCCTTATGTTT
CTCATGTGGGATTGCAGCAACACACAGGCCCTGCAGGTACCATGGTGCCCCCAGCTACTCCAGCCAGCC
TTACCAGAGCACCCACCTTCTACCAATCCTACTTGTAGATCCTACCCGCCACCTGCAACAGCGGCCC
AGTGGCTATGTGCACCAGCAGGCCCCACCTATGGACATGGACTGACCTCCACTCAAAGGTTTTACACC
AGACACTGCAGCAGACCCATGATAAGTACCATGACTCCAATGAGTGCCAGGGCGTCCAGGCAGGCGT
CCGTTCAACAGCCATCCTACCTGAGCAGCAGCAGCAGCAACAGCAGCAACAGCAACAGCAGCAGCAG
CAGCAACAGCAACAGCAGCAGCAGCAGCAGTACCACATCCGGCAGCAGCAGCAGCAGATCCTGC
GGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAACAGCA
ACAACAGCAACACCAGCAGCAACAGCAGCAACAGGCGGCTCCTCCCAACCCAGCCCCAGTCCCAGCCC
CAGTTCAGCGCCAGGGGCTT CAGCAGACCCAGCAGCAGCAACAGACAGCAGCTTGGTCCGGCAACTTC
AACAAAGCTCTCTAATACCCAGCCACAGCCAGTACCAACATATTTGGACGCTAC

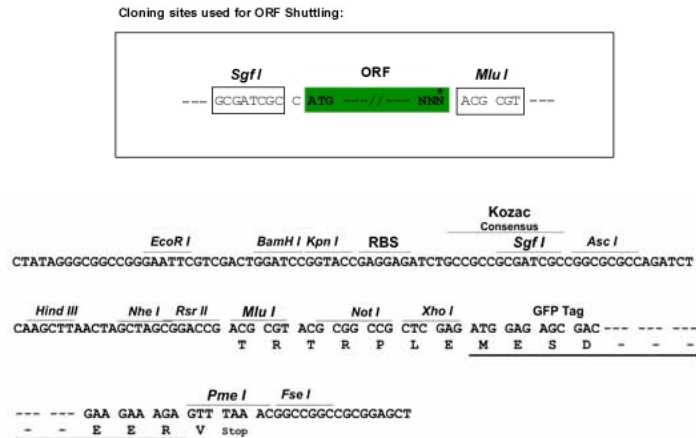
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG217206 representing NM_005120
 Red=Cloning site Green=Tags(s)

MKQSMPSLHTKKILFCYFHLTNSWCLRRYGLGKMAAFGILSYEHRPLKRPRPRLGPPDVYPQDPKQKEDE
 LTALNVKQGFNNQPAVSGDEHGSANKVSNFPAKISSNFSSIIAEKLRCNTLPDTGRRKPKQVQKDNFWLV
 TARSQSAINWFTDLAGTKPLTQLAKKVPVIFSKKEEVFGYLAKYTVPMRAAWLIKMTCAYYAAISETKV
 KKRHVDPFMEWTQIITKYLWEQLQKMAEYYRPGPAGSGGCGSTIGPLPHDVEVAIRQWDYTEKLAMFMFQ
 DGMLDRHEFLTWVLECFEKIRPGEDELLKLLPLLLRYSGEFVQSAYLSRRLAYFCTRRLALQLDGVSSH
 SSHVISAQSTSTLPTTPAPQPPTSSTPSTPFDLLMCPQHRPLVFGLSCILQTILLCCPSALVWHYSLTD
 SRIKTGSPDLHPLIAPSNLPMPEGNSAFTQQVRAKLREIEQQIKERQAVEVRWSFDKCEATAGFTIGR
 VLHTEVLDSHSFERSDFSNSLDSL CNRIFGLGPSKDGHEISSDDAVVSLLCEWAVSCKRSGRHRAMVV
 AKLLEKRAEIEAERCGESEAADEKGSIASGSLSAPSAPVIFQDVLQLFLDTQAPMLTDRPSESERVEFFN
 LVLLFCELIRHDVFSHNMYTCTLSRGDLAFGAPRPPSPFDDPADDPEHKEAEGSSSKLEDPGLSES
 MDIDPSSSVLFEDMEKPDFSLFPTMPCEGKSPSPEKPDVEKEVKPPPKEKIEGTLGVL YDQPRHVQYA
 THFPIPQEEESCSCHECNQRLVVLFGVQKQRDDARHAIKKITKDILKVLNRKGTAEADQLAPVPLNPGDLT
 FLGGEDGQKRRNRPEAFPTAEDIFAKFQHL SHYDQHQVTAQVSRNVLEQITSFALGMSYHPLVQHVQF
 IFDLMEYLSISGLIDFAIQLLNELSVVEAELLKSSDLVGSYTTSLCLCIVAVLRHYHAACLILNQDMA
 QVFEGLCGVVKGHMNRSDGSSAERCILAYLYDLTSCSHLKNKFGEFSDFC SKVKNTIYCNVPESESNM
 RWAPEFMIDTLENPAAHTFTYTGLGKSLSEN PANRYSFVCNALMHVCVGHHPDRVNDIAILCAELTGYC
 KSLSAEWLGVLKALCCSSNNGTCGFNDLLCNVDVSDLSFHDSLATFVAILIARQCLLLEDLIRCAAIPSL
 LNAACSEQDSEPGARLTCRILLHLFKTPQLNPCQSDGNKPTV GIRSSCDRHLLAASQNRIVDGAFAVLK
 AVFVLDGAELKSGFTVTGGTEELPEEEGGGSGRRQGGRNISVETASLDVYAKYVLR SICQQEWVGER
 CLKSLCEDSNLDQPVLSAQAQRLMQLICYPHRLLDNEDGENPQRQRIKRILQNLDQWTRQSSLELQL
 MIKQTPNNEMNSLLENI AKATIEVFQRS AETGSSSGSTASNMPSSSKTKPVLSSLERSGVWLVAPLIAKL
 PTSVQGHV LKAAGEELEKQHLGSSSRKERDRQKQKSM SLLSQQPFLSLVLTCLKGQDEQREGLLTSLYS
 QVHQIVNNWRDDQYLDCKPKQLMHEALKLRLNLVGGMFDTVQRSTQQTTEWAMLLLEIIISGTVDMQSN
 NELFTTVLDMLSVL INGTLAADMSSISQGSMEENKRAYMNLAKKLQKELGERQSDSLEKVRQLLPLPKQT
 RDVITCEPQGSIDTKGNKIAGFDSIFKKEGLQVSTKQKISPWDLFEGLKPSAPLSWGWF GTVRVDRVA
 RGEEQQRLLLYHHLRPRRAYYLEPLPLPEDEEPPAPTLEPEKKAPEPPKTDKPGAAPPSTEERKKK
 STKGKKRSQPATKTEDYGMGPRSGPYGVTVPD LHHPNPGSITHLN YRQGSIGLYTQNOPLPAGGPRV
 DPYRVRVLP MQLPTRPTYPGVLP TMTGVMGLEPSSYKTSVYRQQQPAVPQGGRLRQLQSQSGMLGQS
 SVHQMT PSSSYGLQTSQGYTPYVSHVGLQHTGPAGTMVPPSYSSQPYQSTHPSTNPTLVDPTRHLQQRP
 SGYVHQQAPTYGHGLTSTQRFSHQTLQQT PMISTMTMPMSAQGVQAGVRSTAILPEQQQQQQQQQQQQQ
 QQQQQQQQQQYHIRQQQQQILRQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHQQQQQQQAAPPQPQPQSQP
 QFQRQGLQQTQQQQTAALVRQLQQQLSNTQPQPSTNIFGRY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_005120

ORF Size: 6636 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:

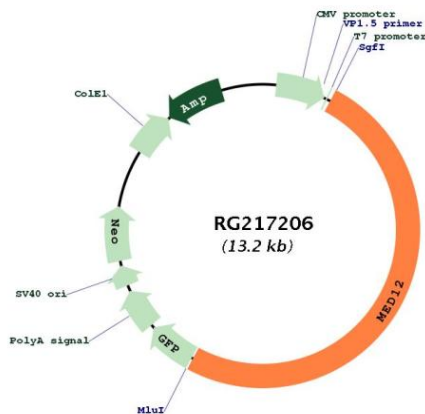
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_005120.1](#), [NP_005111.1](#)

RefSeq Size: 6985 bp
 RefSeq ORF: 6534 bp
 Locus ID: 9968
 UniProt ID: [Q93074](#)
 Cytogenetics: Xq13.1
 Protein Families: Druggable Genome
 Gene Summary:

The initiation of transcription is controlled in part by a large protein assembly known as the preinitiation complex. A component of this preinitiation complex is a 1.2 MDa protein aggregate called Mediator. This Mediator component binds with a CDK8 subcomplex which contains the protein encoded by this gene, mediator complex subunit 12 (MED12), along with MED13, CDK8 kinase, and cyclin C. The CDK8 subcomplex modulates Mediator-polymerase II interactions and thereby regulates transcription initiation and reinitiation rates. The MED12 protein is essential for activating CDK8 kinase. Defects in this gene cause X-linked Opitz-Kaveggia syndrome, also known as FG syndrome, and Lujan-Fryns syndrome. [provided by RefSeq, Aug 2009]

Product images:



Circular map for RG217206