

## Product datasheet for **RG217005**

### **KMT2C (NM\_170606) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KMT2C (NM_170606) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KMT2C
Synonyms:	HALR; KLEFS2; MLL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217005 representing NM_170606. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCGTCGGAGGAGGACAAGAGCGTGGAGCAGCCGAGCCGCCACCACCCCGAGGAGCCTGGA
GCCCGGCCCGAGCCCGCAGCCGAGACAAAAGACCTCGGGCCGGCCTCGCAAAGATGGCGCTTCC
CCTTTCCAGAGAGCCAGAAAGAAACCTCGAAGTAGGGGAAAACCTGCAGTGAAGATGAGGACAGCATG
GATGGGCTGGAGACAACAGAAACAGAAACGATTGTGAAACAGAAATCAAAGAACAATCTGCAGAAGAG
GATGCTGAAGCAGAAGTGATAACAGCAAACAGCTAATCCAACCTTTCAGCGATCTGTGTCTGAGGAA
TCGGCAAACCTCCCTGGTCTCTGTTGGTGTAGAAGCCAAAATCAGTGAACAGCTCTGCGCTTTTTGTAC
TGTGGGAAAAAAGTTTCCTTAGGACAAGGAGACTTAAAACAATTCAGAATAACGCCTGGATTTATCTTG
CCATGGAGAAACCAACCTTCTAACAAGAAGGACATTGATGACAACAGCAATGGAACCTATGAGAAAATG
CAAACTCAGCACCACGAAAACAAGAGGACAGAGAAAAGAACGATCTCCTCAGCAGAATATAGTATCT
TGTGTAAGTGTAAAGCACCAGACAGCTTCAGATGATCAAGCTGGTAAACTGTGGGATGAACCTCAGTCTG
GTTGGCTTCCAGATGCCATTGATCCAAGCCTTATTTGATTCTACAGGCACTTGTGGCTCATCAC
CGTTGTGTGGAGTGGTCACTAGGAGTATGCCAGATGGAAGAACCATTGTTAGTGAACGTGGACAAAGCT
GTTGTCTCAGGGAGCACAGAACGATGTGCATTTTGAAGCACCTTGAGCCACTATCAAATGCTGTGAA
GAGAAATGTACCCAGATGTATCATTATCCTTGTGCTGCAGGAGCCGGCACCTTTCAGGATTCAGTCA
ATCTTCTGCTTTGTCCAGAACACATTGACCAAGCTCCTGAAAGATCGAAGGAAGATGCAAACGTGCA
GTGTGCGACAGCCCGGAGACCTCTTAGATCAGTCTTTTGTACTACTTGTGGTCAAGCACTATCATGGA
ATGTGCCTGGATATAGCGGTTACTCCATTAACACGTGCAGGTTGGCAATGTCTGAGTGCAAAGTGTGC
CAGAACTGCAAACAATCGGGAGAAGATAGCAAGATGCTAGTGTGTGATACGTGTGACAAAGGATCAT
ACTTTTTGTCTTCAACAGTTATGAAATCAGTACCAACCAATGGCTGAAATGCAAAAATTCAGAATA
TGTATAGAGTGTGGCACACGGTCTAGTTCTCAGTGGCACCACAATGCCTGATATGTGACAATTGTTAC
CAACAGCAGGATAACTTATGTCCCTTCTGTGGAAAGTGTATCATCCAGAATTGCAGAAAGACATGCTT
CATTGTAATATGTCAAAGGTGGGTTACCTAGAGTGTGACAAACCAACAGATCATGAACCTGGATACT
```



[View online »](#)

CAGCTCAAAGAAGAGTATATCTGCATGTATTGTAACACCTGGGAGCTGAGATGGATCGTTACAGCCA  
GGTGAGGAAGTGGAGATAGCTGAGCTCACTACAGATTATAACAATGAAATGGAAGTTGAAGGCCCTGAA  
GATCAAAATGGTATTCTCAGAGCAGGCAGCTAATAAAGATGTCAACGGTCAGGAGTCCACTCCTGGAATT  
GTTCCAGATGCGGTTCAAGTCCACACTGAAGAGCAACAGAAGAGTCATCCCTCAGAAAGTCTTGACACA  
GATAGTCTTCTATTGCTGTATCATCCCAACATACAGTGAATACTGAATTGAAAAACAGATTTCTAAT  
GAAGTTGATAGTGAAGACCTGAAAAATGTCTTCTGAAGTGAAGCATATTTGTGGCAAGATCAAATTGAA  
GATAAAAATGGAAGTGACAGAAAAACATTGAAGTCGTTACACACCAGATCACTGTGCAGCAAGAACAACCTG  
CAGTTGTTAGAGGAACCTGAAACAGTGGTATCCAGAGAAGAATCAAGGCCCTCCAAAATTAGTCATGGAA  
TCTGTCACTCTTCCACTAGAAAACCTTAGTGTCCCCACATGAGGAAAATTTTCATTATGTCTGAGGAA  
CAGTTGGTTATAGAAAAGGCTACAAGGAGAAAAGGAACAGAAAAGAAAATTCTGAACTTTCTACTGGATTG  
ATGGACTCTGAAATGACTCCTACAATTGAGGGTTGTGTGAAAGATGTTTCATACCAAGGAGGCAAACTCT  
ATAAAGTTATCATCTGAGACAGAGTCATCATTTTCATCATCAGCAGACATAAGCAAGGCAGATGTGTCT  
TCCTCCCAACACCTTCTCAGACTTGCCTTCGCATGACATGCTGCATAATTACCCTTCAGCTCTTAGT  
TCCTCTGTGAAACATCATGCCAACAACCTTACATCTCAGTCACTCCAAAATTGGCATGGGTAACCA  
GCTATTACTAAGAGAAAATTTTCTCCTGGTAGACCTCGGTCCAAACAGGGGGCTTGGAGTACCCATAAT  
ACAGTGAGCCACCTTCCCTGGTCCCAGACATTTCAGAAGGTCCGGAAAATTTTTAAACCCAGGCAGCTT  
CCTGGCAGTGCCATTTGGAGCATCAAAGTGGGCCGTGGGTCTGGATTTCCAGGAAAAGCGGAGACCTCGA  
GGTGCAGGACTGTCCGGGCGAGGTGGCCGAGGCAGGTCAAAGCTGAAAAGTGGAAATCGGAGCTGTTGTA  
TTACCTGGGGTGTCTACTGCAGATATTTTCATCAAATAAGGATGATGAAGAAAACCTCTATGCACAATACA  
GTTGTGTTGTTTTCTAGCAGTGACAAGTTCACCTTGAATCAGGATATGTGTGAGTTTGTGGCAGTTTT  
GGCCAAGGAGCAGAAGGAAGATTACTTGCTGTCTCAGTGTGGTCAGTGTACCATCCATACTGTGTG  
AGTATTAAGATCACTAAAGTGGTCTTAGCAAAGGTTGGAGGTGTCTTGAAGTGCAGTGTGTGTGAGGCC  
TGTGGAAAGGCAACTGACCCAGGAAGACTCCTGCTGTGTGATGACTGTGACATAAGTTATCACACACTAC  
TGCTTAGACCCTCCATTGCAGACAGTTCCCAAAGGAGGCTGGAAGTGCAATGGTGTGTTTGGTGCAGA  
CACTGTGGAGCAACATCTGCAGGTCTAAGATGTGAATGGCAGAACAATTACACACAGTGCCTCCTTGT  
GCAAGCTTATCTTCTGTCCAGTCTGCTATCGAAACTATAGAGAAGAAGATCTTATTCTGCAATGTAGA  
CAATGTGATAGATGGATGCATGCAGTTTGTGAGAACTTAAATACTGAGGAAGAAGTGGAAAATGTAGCA  
GACATTGGTTTTGATTGTAGCATGTGCAGACCCTATATGCCTGCGTCTAATGTGCCTTCTCAGACTGC  
TGTGAATCTTCACTTGTAGCACAATTTGCACAAAAGTAAAAGAGCTAGACCCACCAAGACTTATACC  
CAGGATGGTGTGTTTTGACTGAATCAGGGATGACTCAGTTACAGAGCCTCACAGTTACAGTTCCAAGA  
AGAAAACGGTCAAACCAAAAATTGAAATGAAGATTATAAATCAGAATAGCGTGGCCGCTCTCAGACC  
CCTCCAGACATCCAATCAGAGCATTCAAGGGATGGTGAATGGATGATAGTCGAGAAGGAGAACCTATG  
GATTGTGATGGAATAAGAAATCTAGTCTGAGCGGAAGCTGTGGATGATGAAACTAAGGGAGTGGAA  
GGAACAGATGGTGTCAAAAAGAGAAAAGGAAACCATACAGACCAGGTATTGGTGGATTTATGGTGGC  
CAAAGAAGTGAAGTGGCAAGGAAAACCAAAAGATCTGTGATCAGAAAAGATTCTCAGGCTCTATT  
TCCGAGCAGTTACCTTGCAGAGATGATGGCTGGAGTGAGCAGTTACCAGATACTTTAGTTGATGAATCT  
GTTTCTGTTACTGAAAGCACTGAAAAATAAAGAAGAGATACCGAAAAGGAAAATAAGCTTGAAGAA  
ACTTTCCCTGCCTATTTACAAGAAGCTTTCTTTGGAAAAGATCTTCTAGATACAAGTAGACAAAGCAAG  
ATAAGTTTAGATAAATCTGTCAGAAGATGGAGCTCAGCTTTTATATAAAAACAAACATGAACACAGGTTTC  
TTGGATCCTTCCCTTAGATCCACTTAGTTTCATCCTCGGCTCCAAACAAAATCTGGAACCTACGGTCTC  
GCTGATGACCCATTAGCTGATATTTCTGAAGTTTTAAACACAGATGATGACATTCTTGAATAATTTCA  
GATGATCTAGCAAAATCAGTTGATCATTAGATATTGGTCTGTCACTGATGATCCTTCTCTTTGCCT  
CAGCCAAATGTCAATCAGAGTTCACGACCATTAAGTGAAGAACAGCTAGATGGGATCCTCAGTCTGAA  
CTAGACAAAATGGTCACAGATGGAGCAATTTCTGGAAAATATATAAAATTCAGAGCTTGGCGGAAAA  
GATGTTGAAGACTTATTTACAGCTGTACTTAGTCTGCGAACACTCAGCCAACTCCATTGCCACAGCCT  
CCCCACCAACACAGCTGTTGCCAATACACAATCAGGATGCTTTTTACGGATGCCTCTCATGAATGGC  
CTTATTGGATCCAGTCTCATCTCCACATAATCTTTGCCACCTGGAAGCGGACTGGGAACTTTCTCT  
GCAATTGCACAATCCTCTTATCCTGATGCCAGGATAAAAATTCAGCCTTAAATCCAATGGCAAGTGAT  
CCTAACAACCTCTTGGACATCATCAGTCCCACTGTGGAAGGAGAAAATGACACAATGTGCAATGCCAG  
AGAAGCACGCTTAAAGTGGGAGAAAAGAGGAGGCTCTGGGTGAAATGGCAACTGTTGCCCGAGTTCTTAC  
ACCAATATTAATTTCCCAACTTAAAGGAAGAATCCCTGATTGGACTACTAGAGTGAAGCAAATGGC  
AAATTGTGGAGAAAAGCAAGCTCACAAGAAAGAGCACCATATGTGCAAAAAGCCAGAGATAACAGAGCT

GCTTTACGCATTAATAAAGTACAGATGTCAAATGATTCCATGAAAAGGCAGCAACAGCAAGATAGCATT  
 GATCCCAGCTCTCGTATTGATTCGGAGCTTTTTAAAGATCCTTTAAAGCAAAGAGAATCAGAACATGAA  
 CAGGAATGGAAATTTAGACAGCAAATGCGTCAGAAAAGTAAAGCAGCAAGCTAAAAATTGAAGCCACACAG  
 AAACCTGAAACAGGTGAAAAATGAGCAGCAGCAGCAGCAACAACAGCAATTTGGTTCTCAGCATCTTCTG  
 GTGCAGTCTGGTTCAGATACACCAAGTAGTGGGATACAGAGTCCCTTGACACCTCAGCCTGGCAATGGA  
 AATATGTCTCCTGCACAGTCATTCCATAAAGAAGTGTTCACAAAACAGCCACCCAGTACCCTACGTCT  
 ACATCTCAGATGATGTGTTTGTAAAGCCACAAGCTCCACCTCCTCCTCAGCCCCATCCCGGATTCCC  
 ATCCAGGATAGTCTTTCTCAGGCTCAGACTTCTCAGCCACCTCACCAGCAAGTGTTCACCTGGGTCC  
 TCTAACTCACGACCACCTCTCCAATGGATCCATATGCAAAAATGGTTGGTACCCTCGACCACCTCCT  
 GTGGGCCATAGTTTTCCAGAAGAAATTCTGCTGCACCAGTGGAAAAGTACACCTTTATCATCGGTA  
 TCTAGGCCCTTCAAATGAATGAGACAACAGCAAATAGGCCATCCCCTGTCAGAGATTTATGTTCTTCT  
 TCCACGACAAATAATGACCCCTATGCAAAAACCTCCAGACACACCTAGGCCTGTGATGACAGATCAATTT  
 CCCAAATCCTTGGGCCTATCCCGTCTCCTGTAGTTTCAGAACAACTGCAAAAGGCCCTATAGCAGCT  
 GGAACCAAGTATCACTTTACTAAACCATCTCCTAGGCAGATGTGTTTCAAAGACAAAGGATACCTGAC  
 TCATATGCACGACCTTGTGACACCTGCACCTTTGATAGTGGTCTGGACCTTTTAAAGACTCCAATG  
 CAACCTCCTCCATCCTCTCAGGATCCTTATGGATCAGTGTACAGGCATCAAGGCGATTGTCTGTTGAC  
 CCTTATGAAAGGCTGCTTTGACACCAAGACCTATAGATAATTTTTCTCATAATCAGTCAAATGATCCA  
 TATAGTCAGCCTCCCCTTACCCACATCCAGCAGTGAATGAATCTTTGCCATCCTTCAAGGGCTTTT  
 TCCCAGCTGGAACCATATCAAGGCCAACATCTCAGGACCCATACTCCCAACCCCGAGGAATCCACGA  
 CCTGTTGTAGATTCTTATCCCAATCTTCAGGAACAGCTAGGTCCAATACAGACCCTTACTCTCAACCT  
 CCTGGAACCTCCCGGCCTACTACTGTTGACCCATATAGTCAGCAGCCCAACCCCAAGACCATCTACA  
 CAAACTGACTTGTGTTTGTACACCTGTAAACAATCAGAGGCATTCTGATCCATATGCTCATCTCCTCGGA  
 ACACCAAGACCTGGAATTTCTGTCCCTTACTCTCAGCCACCAGCAACACCAAGGCCAAGGATTTTCAGAG  
 GGTTTTACTAGGTCTCAATGACAAGACCAGTCCCTCATGCCAAATCAGGATCCTTTCTGCAAGCAGCA  
 CAAAACCGAGGACCAGCTTTACCTGGCCGTTGGTAAAGGCCACCTGATACATGTTCCCGACACCTAGG  
 CCCCTGGACCTGGTCTTTGACACACATTTAGCCGTGTTTCCCATCTGCTGCCCGTGATCCCTATGAT  
 CAGTCTCCAATGACTCCAAGATCTCAGTCTGACTCTTTTGAACAAGTCAAAGTCCCATGATGTTGCT  
 GATCAGCCAAGGCTGGATCAGAGGGGAGCTTCTGTGCATCTTCAAAGTCTCCAATGCACTCCCAAGGC  
 CAGCAGTCTCTGGTGTCTCCAACTTCTGGACCTGTGCCAACTTCCAGGAGTAACTGATACACAGAAAT  
 ACTGTAATATGGCCCAAGCAGATACAGAGAAATTGAGACAGCGGCAGAAAGTTACGTGAAATCATTCTC  
 CAGCAGCAACAGCAGAAGAAGATTGAGGTCGACAGGAGAAGGGTCCAGGACTCACCCGAGTGCCT  
 CATCCAGGGCCTTTCAACACTGGCAACAGAGAATGTTAACCAGGCTTTACCAGACCCCCACCTCCC  
 TATCCTGGGAACATTAGGTCTCCTGTTGCCCTCCTTTAGGACCTAGATATGCTGTTTTCCAAAAGAT  
 CAGCGTGGACCCTATCCTCCTGATGTTGCTAGTATGGGGATGAGACCTCATGGATTTAGATTTGGATTT  
 CCAGGAGGTAGTCATGGTACCATGCCGAGTCAAGAGCGCTTCTTGTGCCTCCTCAGCAAATACAGGGA  
 TCTGGAGTTTCTCCACAGCTAAGAAGATCAGTATCTGTAGATATGCCTAGGCCTTAAATAACTCACAA  
 ATGAATAATCCAGTTGGACTTCTCAGCATTTTTACCACAGAGCTTGCCAGTTCAGCAGCACAAACATA  
 CTGGGCCAAGCATATATTGAACTGAGACATAGGGCTCTGACGGAAGGCAACGGCTGCCTTTCAAGTGT  
 CCACCTGGCAGCGTTGTAGAGGCATCTTCTAATCTGAGACATGGAACTTCATTTCCCGGCCAGACTTT  
 CCGGGCCCTAGACACACAGACCCCATGCGACGACCTCCCAAGGCTACCTAATCAGTACCTGTGCAC  
 CCAGATTTGGAACAAGTGCCACCATCTCAACAAGCAAGGTATTCTGTCCATTCTCTATAGGTC  
 ATGAGGACTCTGAACCATCCACTAGGTGGTGAATTTTCAAGAGCTCCTTTGTCAACATCTGTACCGTCT  
 GAAACAACGTCTGATAATTTACAGATAACCACCCAGCCTTCTGATGGTCTAGAGGAAAAACTTGATTCT  
 GATGACCTTCTGTGAAGGAACTGGATGTTAAAGACCTTGAGGGGTTGAAAGTCAAAGACTTAGATGAT  
 GAAGATCTTGAAGACTTAAATTTAGATACAGAGGATGGCAAGGTAGTTGAATTGGATACTTTAGATAAT  
 TTGAAACTAATGATCCCAACCTGGATGACCTCTTAAAGTCCAGGAGTTTATGATATCATTGCATATACA  
 GATCCAGAACTTGACATGGGAGATAAGAAAAGCATGTTTAAATGAGGAACTAGACCTTCCAATTGATGAT  
 AAGTTAGATAATCAGTGTATCTGTTGAACCAAAAAAAGGAACAAGAAAACAAAACCTCTGGTCTC  
 TCTGATAAACATTCACCACAGAAAAATCCACTGTTACCAATGAGGTAAGAAACGGAAGTACTGTCTCCA  
 AATTCTAAGGTGGAATCCAAATGTGAAACTGAAAAAATGATGAGAATAAAGATAATGTTGACACTCCT  
 TGCTCACAGGCTTCTGCTCACTCAGACCTAAATGATGGAGAAAAGACTTCTTTGCATCCTTGTGATCCA  
 GATCTATTTGAGAAAAGAACCAATCGAGAAACTGCTGGCCCCAGTGCAATGTCATTGAGGCATCCACT

CAACTACCTGCTCAAGATGTAATAAACTCTTGTGGCATAACTGGATCAACTCCAGTTCTCTCAAGTTTA  
 CTTGCTAATGAGAAATCTGATAATTCAGACATTAGGCCATCGGGGTCTCCACCACCACCAACTCTGCCG  
 GCCTCCCATCCAATCATGTGTCAAGTTTGCTCCTTTTCATAGCACCGCTGGCCGTGTTTTGGATAAT  
 GCCATGAATTCTAATGTGACAGTAGTCTCTAGGGTAAACCATGTTTTTCTCAGGGTGTGCAGGTAAC  
 CCAGGGCTCATTCCAGGTCAATCAACAGTTAACACAGTCTGGGGACAGGAAAACCTGCAACTCAAAT  
 GGGCCTCAAACAAGTCAGTCTGGTACCAGTAGCATGTCTGGACCCCAACAGCTAATGATTCTCAAACA  
 TTAGCACAGCAGAATAGAGAGAGGCCCTTCTTCTAGAAGAACAGCCTCTACTTCTACAGGATCTTTTG  
 GATCAAGAAAGGCAAGAACAGCAGCAGCAAGACAGATGCAAGCCATGATTTCGTACAGCATCAGAACCG  
 TTCTTCCCTAATATTGATTTTGTGCAATTACAGATCCTATAATGAAAGCCAAAATGGTGGCCCTTAAA  
 GGTATAAAATAAGTGATGGCACAAAACAATCTGGGCATGCCACCAATGGTGATGAGCAGGTTCCCTTTT  
 ATGGGCCAGGTGTAACCTGGAACACAGAACAGTGAAGGACAGAACCTGGACCACAGGCCATTCTCAG  
 GATGGCAGTATAACACATCAGATTTCTAGGCCTAATCCTCAAATTTTGGTCCAGGCTTTGTCAATGAT  
 TCACAGCGTAAGCAGTATGAAGAGTGGCTCCAGGAGACCCAACAGCTGCTCAAATGCAGCAGAAGTAT  
 CTTGAAGAACAATTTGGTGTCTACAGAAAATCTAAGAAGGCCCTTCAGCTAAACAACGTAAGTCCAAAG  
 AAAGCTGGGCGTGAATTTCCAGAGGAAGATGCAGAACAACCTCAAGCATGTTACTGAACAGCAAAGCATG  
 GTTCAGAAAACAGCTAGAACAGATTTCGTAACAACAGAAAAGCAATGCTGAATTGATTGAAGATTATCGG  
 ATCAAACAGCAGCAGCAATGTGCAATGGCCCCACCTACCATGATGCCCAGTGTCCAGCCCCAGCCACCC  
 CTAATTCAGGTGCCACTCCACCACCATGAGCCAACCCACCTTTCCCATGGTGCCACAGCAGCTTCAG  
 CACCAGCAGCACACAACAGTTATTTCTGGCCATACTAGCCCTGTTAGAATGCCCAGTTTACCTGGATGG  
 CAACCCAAACAGTCTCTGCCACCTGCCCTCAATCCTCTAGAATTCAGCCCCAATTGCCCAGTTA  
 CCAATAAAAACCTGTACACCAGCCCCAGGGACAGTCTCAAATGCAAAATCCACAGAGTGGACCACCACCT  
 CGGGTAGAATTTGATGACAACAATCCCTTTAGTAAAAGTTTTCAAGAACGGGAACGTAAGGAACGTTTA  
 CGAGAACAGCAAGAGAGACAACGGATCCAACCTCATGCAGGAGGTAGATAGACAAGAGCTTTGCAGCAG  
 AGGATGGAAATGGAGCAGCATGGTATGGTGGGCTCTGAGATAAGTAGTAGTAGGACATCTGTGCCAG  
 ATTCCTTCTACAGTTCGACTTACCTTGTGATTTTATGCAACCTCTAGGACCCCTTCAGCAGTCTCCA  
 CAACACCAACAGCAAATGGGGCAGGTTTTACAGCAGCAGAATATAACAACAAGGATCAATTAATTCACCC  
 TCCACCCAAACTTTCATGCAGACTAATGAGCGAAGGCAGGTAGGCCCTCCTTCATTTGTTCTGATTCA  
 CCATCAATCCCTGTTGGAAGCCCAAATTTTTCTTCTGTGAAGCAGGGACATGGAATCTTTCTGGGACC  
 AGCTTCCAGCAGTCCCAGTGGCCCTCTTTTACACCTGCTTTACCAGCAGCACCTCCAGTAGCTAAT  
 AGCAGTCTCCCATGTGGCAAGATTCTACTATAACCCATGGACACAGTTATCCGGGATCAACCCAATCG  
 CTCATTAGTTGATTCTGATATAATCCAGAGGAAAAAGGAAAAAGAAAAGAACAAAGAAAGAGAAA  
 AGAGATGATGATCGAATCCACCAAGGCTCCATCAACTCCCCATTCAGATATAACTGCCCCACCGACT  
 CCAGGCATCTCAGAAAACCTCTACTCTGCAGTGGACACCCAGTGAGCTTCTCAACAAGCCGAC  
 CAAGAGTCGGTGGAAACAGTCCGGCCATCCACTCCAATATGGCAGCAGGCCAGCTATGTACAGAATTA  
 GAGAACAAACTGCCCAATAGTGATTTCTACAAGCAACTCCAATCAACAGACGTATGCAAAATTCAGAA  
 GTAGACAAGCTCTCCATGGAAACCCCTGCCAAAACAGAAGAGATAAACTGGAAAAGGCTGAGACAGAG  
 TCCTGCCCAGGCCAAGAGGAGCCTAAATGGAGGAACAGAATGGTAGTAAGGTAGAAGGAAACGCTGTA  
 GCCTGTCTGTCTCCTCAGCACAGAGTCTCCCATTCGTGGGGCCCTGCTGCCAAAGGAGACTCA  
 GGAATGAACTTCTGAAACACTTGTGAAAAATAAAAAGTCATCTCTCTTTTGAATCAAAAACCTGAG  
 GGAGTATTTGTTTTCAGAAGATGACTGTACAAAGGATAATAAACTAGTTGAGAAGCAGAACCAGCTGAA  
 GGACTGCAAACTTTGGGGCTCAAATGCAAGGTGGTTTTGGATGTGGCAACCAAGTTGCCAAAAACAGAT  
 GGAGGAAGTGAACCAAGAAACAGCGAAGCAAACGGACTCAGAGGACGGGTGAGAAAAGCAGCACCTCGC  
 TCAAAGAAAAGGAAAAGGACGAAGAGGAGAAACAAGCTATGACTCTAGCACTGACACGTTTACCAC  
 TTGAAACAGCAGAATAATTTAAGTAATCCTCCAACACCCCTGCCTCTCTCTCTACACCACCTCCT  
 ATGGCTTGTGAGAAGATGGCCAATGGTTTTGCAACAACGAAGAAGTCTGCTGGAAAAGCCGGAGTGTTA  
 GTGAGCCATGAAGTTACCAAACTCTAGGACCTAAACATTTTCAGCTGCCCTTCAGACCCAGGACGAC  
 TTGTTGGCCCGAGCTCTGCTCAGGGCCCAAGACAGTTGATGTGCCAGCCTCCCTCCCAACACCACCT  
 CATAACAATCAGGAAGAATTAAGGATACAGGATCACTGTGGTGATCGAGATACTCCTGACAGTTTGT  
 CCCTCATCTCTCTGAGAGTGTGGTGGGGTAGAAGTGAGCAGGTATCCAGATCTGTCATTGGTCAAG  
 GAGGAGCCTCCAGAACGGTGCCGTCCCCCATCATTCCAATTTCTCTAGCACTGCTGGGAAAAGTTCA  
 GAATCAAGAAGGAATGACATCAAACTGAGCCAGGCACCTTTATTTTTGCGTCACCTTTTGGTCTTCC  
 CCAATGGTCCCAGATCAGGTCTTATATCTGTAGCAATTACTCTGCATCTACAGCTGCTGAGAACATT

```

AGCAGTGTGTGGCTGCATTTCCGACCTTCTTACGTCCGAATCCCTAACAGCTATGAGGTTAGCAGT
GCTCCAGATGTCCCATCCATGGGTTTGGTCAAGTCCAGCAAGAATCAACCCGGGTTTGGAGTATCGACAG
CATTACTTCTCCGTGGGCTCCGCCAGGATCTGCAAACCTCCAGATTAGTGAGCTCTTACCGGCTG
AAGCAGCCTAATGTACCATTTCTCCAACAAGCAATGGTCTTTCTGGATATAAGGATTCTAGTCATGGT
ATTGCAGAAAGCGCAGCACTCAGACCACAGTGGTGTTCATTGTAAGTGGTTATTCTTGAAGTGGT
GTGCGGAAATCTTTCAAAGATCTGACCCCTTTGAACAAGGATCCCGAGAAAGCACCAGAGGGTAGAG
AAGGACATTGTCTTCTGTAGTAATAACTGCTTTATTCTTTATTCATCAACTGCACAAGCGAAAACTCA
GAAAACAAGGAATCCATTCTTTCATTGCCACAATCACCTATGAGAGAAACGCCTTCCAAAGCATTTCAT
CAGTACAGCAACAACATCTCCACTTTGGATGTGCACTGTCTCCCCAGCTCCCAGAGAAAGCTTCTCCC
CCTGCCTCACCACCCATCGCCTTCCCTCTGCTTTTGAAGCAGCCCAAGTCGAGGCCAAGCCAGATGAG
CTGAAGGTGACAGTCAAGCTGAAGCCTCGGCTAAGAGCTGTCCATGGTGGGTTTGAAGATTGCAGGCCG
CTCAATAAAAAATGGAGAGGAATGAAATGGAAGAAGTGGAGCATTCAATTGTAATCCCTAAGGGGACA
TTTAAACCACCTTGTGAGGATGAAATAGATGAATTTCTAAAGAAATGGGCCTTCCCTAAACCTGAT
CCTGTGCCAAAGACTATCGAAATGTTGCTTTTGTGATGAAGAAGGTGATGGATTGACAGATGGACCA
GCAAGGCTACTCAACCTTGACTTGGATCTGTGGTCCACTTGAAGTGCCTCTGTGGTCCACGGAGGTC
TATGAGACTCAGGCTGGTGCCTTAATAAATGTGGAGCTAGCTCTGAGGAGAGGCCACAAATGAAATGT
GTCTTCTGTACACAAGACGGGTGCCACTAGTGGATGCCACAGATTCGATGCCAACATTTATCACTTC
ACTTGGCCATTAAGCACAATGCATGTTTTTAAAGCAGCAAACTATGCTTTGCCCATGCACAAACCA
AAGGGAATTCATGAGCAAGAATTAAGTACTTTGCAGTCTTCAGGAGGCTCTATGTTTCAGCGTATGAG
GTGCGACAGATTGCTAGCATCGTGAACGAGGAGAACGGGACCATACCTTTCGCGTGGGTAGCCTCATC
TTCCACACAATGGTCAAGTCTTCCACAGCAGATGCAAGCATTCCATTCTCTAAAGCACTTTCCTT
TGGGCTATGAAGCCAGCCGGCTGTACTGGAGCACTCGCTATGCCAATAGGCGCTGCCGTACCTGTGC
TCCATTGAGGAGAAGGATGGGCGCCAGTGTGTTGTCATCAGGATTGTGGAACAAGGCCATGAAGACCTG
GTTCTAAGTGACATCTCACCTAAAGGTGTCTGGGATAAGATTTTGGAGCCTGTGGCATGTGTGAGAAAA
AAGTCTGAAATGCTCCAGCTTTTCCAGCGTATTTAAAGGAGAGGATCTGTTTGGCCTGACCGTCTCT
GCAGTGGCAGCATAGCGGAATCACTTCTGGGTTGAGGCATGTGAAAATTATACCTTCCGATACGGC
CGAAATCTCTCATGGAACCTTCTTGGCGTTAACCCACAGGTTGTGCCGTTCTGAACCTAAATG
AGTGCCCATGTCAAGAGGTTTGTGTTAAGGCTCACACCTTAAACAGCACCAGCACCTCAAAGTCATTT
CAGAGCACAGTCACTGGAGAAGTGAACGCACCTTATAGTAAACAGTTTGTCACTCCAAGTCATCGCAG
TACCGGAAGATGAAAAGTGAATGGAATCCAATGTGTATCTGGCAGGTTCTCGGATTGAGGGCTGGGC
CTGTATGTGCTCGAGACATTGAGAAACACACCATGGTCAATTGAGTACATCGGGACTATCATTGAAAC
GAAGTAGCCAACAGGAAAGAGAAGCTTTATGAGTCTCAGAACCGTGGTGTGTACATGTTCCGCATGGAT
AACGACCATGTGATTGACGCGACGCTCACAGGAGGGCCGCAAGGTATATCAACCATTCTGTGACCT
AATTGTGTGGCTGAAGTGGTACTTTTGGAGAGGACACAAAATTATCATCAGCTCCAGTCGGAGAATC
CAGAAAGGAGAAGAGCTGTGCTATGACTATAAGTTTACTTTGAAGATGACCAGCACAAGATTCCGTGT
CACTGTGGAGCTGTGAAGTCCGGAAAGTGGATGAAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
    
```

**Protein Sequence:**

>Peptide sequence encoded by RG217005  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MSSEEDKSVEQPQPPPPPEEPGAPAPSPAADKRPRGRPRKDGASPFQRARKKPRSRGKTAVEDEDSM
DGLTETETETIVETEIKEQSAEEDAEAEVDNSKQLIPTLQRSVSEESANSLVSVGVEAKISEQLCAFCY
CGEKSSLGQGDLLKQFRIIPGFILPWRNQPSNKKDIDDNSNGTYEKMQNSAPRKQRGQRKERSPPQNIIVS
CVSVSTQTASDDQAGKLWDEL SLVGLPDAIDIQALFDSTGTCWAHHRCVEWSL GVCQMEEPLL VNVDKA
VYSGSTERCAFCKHLGATIKCCEEKCTQMYHYPCAAGAGTFQDFSHIFLLCPEHIDQAPERSKEDANCA
VCDSPGDLDDQFFCTTCGQHYHGMCLDIAVTPLKRAAGWQCPECKVCQNCKQSGEDSKMLVCDTCDKGYH
TFCLQPMKSVPTNGWKCKNCRIECGTRSSQWHHNLICDNCYQQQDNLCPFQKCYHPELQKQDML
HCNMCKRWHLECDKPTDHELDLQKKEEYICMYCKHLGAEMDRLQPGEEVEIAELTTDYNMEMEVEGPE
DQMVFSEQAANKDVNGQESTPGIVPDAVQVHTEEQKSHPSSESLDTSLLI AVSSQHTVNTELEKQISN
EVDSEDLKMSSEVKHICGEDQIEDKMEVTENIEVVTHQITVQEQQLLLEPETVVSREESRPPKLVME
SVTLPLETLVSPHEESISLCPPEQLVIERLQGEKEQKENSELSTGLMDSEMTPTIEGCVKDVSYQGGKS
IKLSSETESSFSSADISKADVSSPTPSDLPSHDMHLHNYPSSALSSSAGNIMPTTYISVTPKIGMGKP
    
```

AITKRKFSRGRPRRSKQGAWSTHNTVSPSPWSPDI SEGREIFKPRQLPGSAIWSIKVGRGSGFPGKRRPR  
 GAGLSRGGRRGRSKLKSIGAVVLPGVSTADISSNKDDEENSMHNTVVLFSSSDKFTLNQDMCVVCGSF  
 GQGAEGRLLACSQCGQCYHPYCVSIKITKVVL SKGWRCLECTVCEACGKATDPGRLLLCDDCDISYHTY  
 CLDPPLQTVPKGGWKCKWCVWCRHCGATSAGLRCEWQNNYTQCAPCASLSSCPVCYRNYREEDLILQCR  
 QCDRWMHAVCQNLNTEEEVENVADIGFDCSMCRPYMPASNVPSSDCESSLVAQIVTKVKELDPPKTYT  
 QDGVCLTESGMTQLQSLTVTVPRRKRKPKLKLKIIINQNSVAVLQTPPDIQSEHSRDGEMDDSRGELM  
 DCDGKSESSPEREAVDDETKGVEGTDGVKKRKRKPYRPGIGGFMVRQRSRTGQGTKRSVIRKDDSSGSI  
 SEQLPCRDDGWSEQLPDTLVDESVSVTESTEKIKKRYRKRKNKLEETFPAYLQEAFFGKDLLDTSRQSK  
 ISLDNLSEDGAQLLYKTNMNTGFLDPSLDPLSSSSAPTSGTHGPAADDPLADISEVLTDDDILGIIS  
 DDLAKSVDHSDIGPVTDDPSSLQPQNVNQSSRPLSEEQLDGLSPELDKMTDGAAILGKLYKIPELGGK  
 DVEDLFTAVLSPANTQPTPLPQPPPTQLLPIHNQDAFSRMLMNLIGSSPHLPHNSLPPGSLGTFS  
 AIAQSSYPDARDKNSAFNPMSADPNNSWTSSAPTVEGENDTMSNAQRSTLKEKEALGEMATVAPVLY  
 TNINFNPKKEFPDWTTRVKQIAKLWRKASSQERAPYVQKARDNRAALRINKVQMSNDSMKRQQQDSI  
 DPSSRIDSELFKDPKQRESEHEQEWKFRQMRQKSKQQAIEATQKLEQVQNEQQQQQQFQSQHLL  
 VQSGSDTPSSGIQSPLTPQPGNGMSPAQSFHKELFKQPPSTPTSTSSDDVFKVQAPPPPPAPSRIP  
 IQDLSLQAQTSQPPSPQVSPGSSNSRPPSPMDPYAKMVGTPRPPPVGHFSRRNSAAPVENCTPLSSV  
 SRPLQMNETTANRPSVPRDLCSSSTTNDPYAKPPDTPRPVMTDQFPKSLGLSRSPVVSEQTAKGPIAA  
 GTSDHFTKPSPRADVFRQRIPDSYARPLLTPAPLDSGPGPFKTPMQPPSSQDPYGSVSQASRRLSVD  
 PYERPALTPRPIDNFSHNQSNPYSQPPLTPHPAVNESFAHPSRAFSQPGTISRPTSQDPYSQPPGTPR  
 PVVDSYSQSSGTARSNTDPYSQPPGTPRPTTVDPYSQQPQTPRPSTQDRLFVTPVTNQRHSDPYAHPPG  
 TPRPGISVPYSQPATPRPRISEGFTRSSMTRPVLMPNQDPFLQAAQNRGALPGPLVRPDTCSQTPR  
 PPGPGLSDTFSRVSPSAARDPYDQSPMTPRSQSDSFGTSQTAHDVADQPRPGSEGSFCASSNSPMHSQG  
 QQFSGVSQLPGPVPTSGVTDQNTVNMAQADTEKLRQRQKREILIQQQQKKIAGRQKGSQSPAVP  
 HPGPLQHWQPENVNQAFTRPPPPYPGNIRSPVAPPLGPRYAVFPKQDQRPYPDVASMGMRPHGFRGF  
 PGGSHGTMPQSQRFLVPPQQIQGSGVSPQLRRSVSDMPRPLNNSQMNPVGLPQHFSQSLPVQQHNI  
 LGQAYIELRHRAPDGRQRLPFSAPPGSVVEASSNLRHGNFIPRPDFFGPRHTDPMRRPPQGLPNQLPVH  
 PDLEQVPPSQEQGHSVHSSSMVMTLNHPLGGEFSEAPLSTVSPSETTSDNLQITTPSDGLEEKLDS  
 DDPSVKELDVKDLGVEVKLDDEDLNLDLTDGKVVLEDTLDNLETNDPNLDDLRSGEFDIIAYT  
 DPELDMGDKKSMFNEELDLPIDDKLDNQCVSVEPKKKEQENKTLVLSDKHSPQKSTVTNEVKTEVLS  
 NSKVESKCETEKNDENKDNVDTPCSQASAHSDLNDGEKTSLHPCDPDLFEKRTNRETAGPSANVIQAST  
 QLPAQDVINSCGITGSTPVLSSLLANEKSDNSDIRPSGSPPPPTLPASPSNHVSSLPPFIAPPGRVLDN  
 AMNSNVTYVSRVNHVFSQGVQVNPGLIPGQSTVNHSLGTGKPATQTGPQTSQSGTSSMSGPQLMIPQT  
 LAQQNRERPLLEEQLLLQDLLDQERQEQQQRQMAMIRQRSEPFPNIDFDAITDPIKAKMVALK  
 GINKVMAQNNLGMPPMVMRSRPFPMGQVVTGTQNSEGNLGPQAIQDGSITHQISRPNPPNFGPGFVND  
 SQRKQYEEWLQETQQLLQMQQKYLEEQIGAHRKSKKALSAKQRTAKKAGREFPEEDAEQLKHVTEQQSM  
 VQKQLEQIRKQKQKEHAELIEDYRIKQQQCAMAPPTMMPSVQPQPLIPGATPPTMSQPTFPMVPPQLQ  
 HQQHTTVISGHTSPVRMPSLPGWQPNAPAHPLNPPRIQPIAQLPIKCTPAPGTVSNANPQSGPPP  
 RVEFDDNPFSESFQERERKERLREQQERQRIQLMQEVDQRALQQRMEMEQHGVMGSEISSRSTSVSQ  
 IPFYSSDLPCDFMQPLGPLQQSPHQHQQMGQVLQQQNIQQGSINSPSTQTFMQTNERRQVGPSPFVPS  
 PSIPVGSNPFSSVKQGHGNLSGTSFQQSPVRPSTPALPAAPPVANSSSLPCGQDSTITHGHSYPGSTQS  
 LIQLYSDIPEEKGKKRTRKKRDDDASTKAPSTPHSDITAPPTPGISETTSTPAVSTPSELPPQAD  
 QESVEPVGSTPNMAAGQLCTELENKLPNSDFSQATPNQQTYANSEVDKLSMETPAKTEEIKLEKAETE  
 SCPGQEEPKEEQNGSKVEGNAVACPVSSAQSPPHSAGAPAAKGDGSGNELLKHLKKNKSSLLNQKPE  
 GSICSEDDCKDNKLVEKQNPAGLQTLGAQMGGFGCGNQLPKTDGGSETTKQRKRTQRTGEKAAPR  
 SKKRKKDEEEKQAMYSSTDTFTHLKQNNLSNPPTPPASLPPTPPMACQKMANGFATTEELAGKAGVL  
 VSHEVTKTLGPKPFQLFRPQDILLARALAQGPKTVDPASLTPPHNNQEELRIQDHCGRDTPDSFV  
 PSSSPESVVGVEVSRYPDLSLVKEEPPEVPSPPIIPILPSTAGKSESRNDIKTEPGTLYFASPFGPS  
 PNGRSLISVAITLHPTAAENISSVAAFSDLLHVRIPNSYEVSSAPDVPSMGLVSSHINPGLERYQ  
 HLLLRGPPPGSANPPRLVSSYRLKQPNVPFPPTSNGLSGYKDSHIGIAESAAALRPQWCCHCKVILGSG  
 VRKSFKDLTLLNKDSRESTKRVEKDIVFCNNCFILYSSTAQAKNSENKESIPSLPQSPMRETPSKAFH  
 QYSNNISTLDVHCLPQLPEKASPPASPIAFPFAFAEAQVEAKPDELKVTVKLPRLRAVHGGFEDCRP  
 LNKKWRGMKWKWSIHIVIPKGTFKPPCEDEIDFLKKGTLGSLKPDVPKDYRKCFCHEEGDGLTDGP

ARLLNLDLWHLNCAWSTEVYETQAGALINVELALRRGLQMKCVFCHKTGATSGCHRFRCTNIYHF  
 TCAIKAQCMFFKDKTMLCPMHKPKGIHEQELSYFAVFRVYVQRDEVRQIASIVQRGERDHTFRVGLSI  
 FHTIGQLLPQQMQAFHSPKALFPVGYEASRLYWSTRYANRRCRYLCSIEEKDGRPVFVIRIVEQGHEDL  
 VLSDISPQGVWDKILEPVACVRKKSEMLQLFPAYLKGEDLFGLTVSAVARIAESLPGVEACENYTFRYG  
 RNPLMELPLAVNPTGCARSEPKMSAHVKRFVLRPHTLNSTSTSKSFQSTVTGELNAPYSKQFVHSKSSQ  
 YRKMKTEWKSNNYLARSRIQGLGLYAARDIEKHTMVIIEYIGTIIIRNEVANRKEKLYESQNRGVYMFMD  
 NDHVIDATLTGGPARYINHSCAPNCVAEVVTFERGHKIISSRRRIQKGEELCYDYKDFEDDQHKIPC  
 HCGAVNCRKWMN

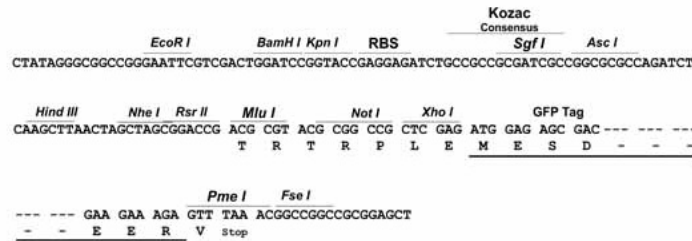
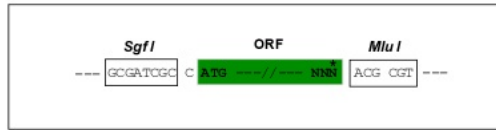
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

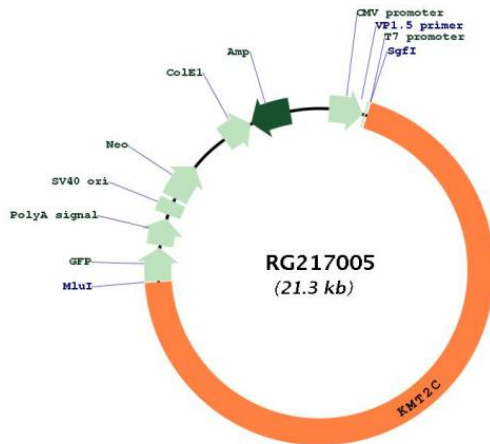
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:

NM\_170606

<b>ORF Size:</b>	14733 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_170606.3</a>
<b>RefSeq Size:</b>	14977 bp
<b>RefSeq ORF:</b>	14736 bp
<b>Locus ID:</b>	58508
<b>UniProt ID:</b>	<a href="#">Q8NEZ4</a>
<b>Cytogenetics:</b>	7q36.1
<b>Domains:</b>	AT_hook, HMG, SET, PHD, PostSET, FYRN, FYRC
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	541.4 kDa



**Gene Summary:**

This gene is a member of the myeloid/lymphoid or mixed-lineage leukemia (MLL) family and encodes a nuclear protein with an AT hook DNA-binding domain, a DHHC-type zinc finger, six PHD-type zinc fingers, a SET domain, a post-SET domain and a RING-type zinc finger. This protein is a member of the ASC-2/NCOA6 complex (ASCOM), which possesses histone methylation activity and is involved in transcriptional coactivation. [provided by RefSeq, Jul 2008]