

## Product datasheet for **RG220130**

### **KMT2B (NM\_014727) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KMT2B (NM_014727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KMT2B
Synonyms:	CXXC10; DYT28; HRX2; MLL1B; MLL2; MLL4; TRX2; WBP-7; WBP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220130 representing NM_014727 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGCGGGCGGGCGGGCGGGCAGTTGCCCGGGCCTGGCTCCGCGCGGGGCGCTTCCCGGGCCGGC  
CGCGGGGCGCGGGCGGGGCGGGGCGGGCGGGCGGGGCAACGGGGCCGAAAGAGTGCGGGTAGCTCT  
GCGGGCGGGCGGTGGCGGACGGGGCGGGCGGAGCCGAGCCCGGGGAGGACACGGCCCTGCTCCGTTTG  
CTGGGGCTCCGCCGGGGCTGCGCCGGCTCCGCCCTGTGGCCGGCCCGGGTCCAGCGGGGCGGG  
GACGGGTCCGGGCGGGGCTGGGGCCGAGTCGAGGCTGCGTCCGGAGGAGGAGCAGTGACGGGA  
ATCCGACGAGGAGGATTCAGGGTTTTATTAGATGAAGATGTGGCCCCAGTTCCCTGCGCTCTGCG  
CTCCGATCCCAGCGAGGTCGAGCGCCCCGAGGTCGGGGTCGCAAGCATAAGACGACCCCCCTTCTCCTC  
CTCGCCTAGCAGATGTGGCTCCTACCCCCAAAGACCCCTGCCCGAAACGGGGTGAAGAGGCACAGA  
ACGGATGGTGCAGGCACTGACTGAATCTCCGGCGGGCCAGGCACCCCAAGCACCCCGGAGCCGGGCA  
TGTGAGCCCTCCACCCCGGGGTCTCGGGGACGGCCCCAGGACGGCCAGCAGGCCCTGCAGGAGGA  
AGCAGCAAGCAGTAGTGGTGGCAGAAGCAGCTGTGACAATCCCCAAACCTGAGCCCCACCTCCTGTGGT  
TCCAGTGAACATCAGACTGGCAGCTGGAATGCAAGGAGGGGCCCGGTCCAGGACCTGGGACCCCCAGG  
CGTGGAGGACAGTCAAGCCGTGGAGCCGTGGAGGAGGGGCGGGCCGAGGTGGTGGGCTCCCTTTG  
TGATCAAGTTTGTTCAGGGCCAAAAAGTAAAGATGGGACAATTGTCCTTGGGACTCGAATCAGGTCA  
AGGTCAAGGTCAACATGAGGAAAGTTGGCAGGATGTCCCCAAAGAAGAGTTGGATCTGGACAGGGAGGG  
AGCCCTTGTGAAAAAGCAGGAACAGAAGCTGGATGACGAGGAAGAAGAGAAGAAAGAAAGAAAGAAA  
AAGACAAGGAGGAGAAGAGAAGGAAGAAAGAGCTGTAGCTGAGGAGATGATGCCAGCTGCGGAAAAGGA  
AGAGGCAAAGCTGCCACCACCGCTCTGACTCCTCAGCCCTTACCTCCTCCACCCCTCCACCCCTC  
TCGACATCCTCCACCCCACTCTGCCCTCCACCACCACCCCACTGTCCCCACCACCTTACCATCCC  
CTCCACCCCTCCTGCCAAGAGGAGCAGGAGGAATCCCTCCTCCTGTGGTCCCAGCTACGTGCTCCAG  
GAAGAGGGGCGGCTCCCTGACTCCAGCCAGCGGGCGGAGCGGGAAGCTGCTCGGGCAGGGCCAGAG



[View online »](#)

GGCACCTCTCCTCCCACTCCAACCCCCAGCACCCGCCACGGGAGGCCCTCCGGAAGACAGTCCCACCGTGG  
 CCCCCAAAAGCACCACTTCTGAAGAATATCCGGCAGTTTATTATGCCTGTGGTGTGAGTGCCCGCTCCTC  
 CCGTGTCAATCAAGACACCCCGCGATTTATGGATGAAGACCCCCCAAACCCCCAAAGGTGGAGGTCTCA  
 CCTGTCTGCGACCTCCATTACCACCTCCCACCTGTCCCCAGGAGCCAGCACCAAGTCCCCTCTCCAC  
 CACGTGCCCAACTCCTCCATCTACCCAGTTCACCTCCCTGAGAAGAGACGGTCCATCCTAAGGGAACC  
 CACATTTTCGTGGACCTACTGACCCGGGAGCTGCCCCCTCCTCCCCAGCCCCCACCCTCCCCCGGCC  
 CCCTCCCACCCCTGCTCCTGCCACTCCTCCCGGAGGCCCTACTCCTTCGGGCCCTCAGTTTACCC  
 CAAGCGAAGCCCACTGAAGATCTACGAATCGGTGCTTACTCCTCCTCCTTGGGGCTCCTGAAGCCCC  
 TGAGCCAGAGCCTCCTCCTGCCGATGACTCTCCAGCTGAGCCTGAGCCTCGGGCAGTGGGCCGACCAAC  
 CACCTCAGCCTGCCTCGATTGCCCCCTGTGGTACCACCTCCTGTTAAGGCCGAGGTGTCCCTCACGGGG  
 CTCCAGCTCTGAGCAACGGGCCACAGACACAGGCTCAGCTACTGCAGCCCTGCAGGCCTTGAAACCCA  
 GTCCTGCCCCAGGCACTACCGCCACCACAGCCACAGCTGCAGCCACCGCCGTACCACAGCAGATGCCT  
 CCCCTGAAAAAGCCCGATTGCGGGCTGGGTTCTTGCCGCTGTCTGGGTAGAGGAGAAGATGTTCA  
 GCCTCCTCAAGAGAGCCAAAGTGCAGCTATTCAAGATCGATCAGCAGCAGCAGAGAAGGTGGCAGCTTC  
 CATGCCGTGAGCCCTGGAGGGCAGATGGAGGAGGTGGCCGGGGTGTCAAGCAGATCTCCGACAGAGGC  
 CCTGTCCGGTCTGAAGATGAGTCGGTGAAGCTAAGAGAGAGCGCCCTCAGGTCCCAGTCCCCTGTGC  
 AAGGTCCCAGCATCAAACATGTCTGCCGTGATGCTGTGTGGCCCTGGGTGAGGCCCGGGCCATGGTGCC  
 TGAAGATGTCCCTCGCCTCAGTGCCCTCCTCTCCGGGATCGGCAGGACCTCGCCACAGAGGATACATCA  
 TCGGGCTCCGAGACTGAGAGTGTCCCGTACGGTCCCAGCGGGGAAAGGTGGAGGAGCAGGCCCCTGGGG  
 GAGAATCAGAGCCACAGGTTCTGGAGGGACCTGGCCACACACCCCGCGCTCACTGCCCTCCCATCA  
 CGGCAAGAAGATGCGCATGGCTCGATGTGGACTGTGCGGGTGCCTACGTGTGCAGGACTGTGGGTCC  
 TGTGTCAACTGCCTAGACAAGCCAAAGTTGGGGGCCAACACCAAGAAGCAGTGTGTATACCGGA  
 AGTGTGACAAAAATAGAGGCTCGGAAGATGGAACGACTGGCTAAAAAAGGCCGAGCATAGTGAAGACGCT  
 GTTGCCCTGGGATCCGATGAATCTCCTGAGCCCTCCCCTGGTCTCCAGGCCACCGGGGGGGCGGA  
 GCTGGGGGGCCCCGGGAGGAGGTGGTGGCCACCCAGGGCCGAGGAGCAGGACTCCCTCCTGCAGCGCA  
 AGTCAGCTCGGCCTGCGTCAAACAGCGACCCCTCCTATGATATCTTCGAGGATTCGGATGACTCGGAGCC  
 CGGGGGCCCCCTGCTCCTCGCGCTCGGACCCCCGAGAAAAATGAGTGCCTGCCACTGCCAGAACCTGAGGAG  
 CAGAGCCGGCCCCGAAACCTACCCTGCAGCCTGTGTTGCAGCTCAAGGCCCGAAGGCGCTGGACAAGG  
 ATGCTTTGGCCCCGCCCCCTTTGCTTCTTTCCCAATGGCTGGACTGGAAGCAGAAAGTCTCCCGATGG  
 TGTGCACCGCTCCGTGTGGATTTAAGGAGGATTGTGATTTAGAGAACGTGTGGCTGATGGGGGCGCTG  
 AGTGTGCTCACCTCTGTGCCAGGGGGCCCCCGATGGTGTGCTTGTGTGCCAGCAAAGGACTCCACG  
 AGCTGGTGTCTGTCAAGTCTGCTGTGACCCATTCCACCCATTCTGCCTGGAGGAGGCCAGCGGCCCT  
 GCCCCAGCATCACGACACCTGGTGTGCCGTGCTGCAAATTCTGCCACGTCTGTGGACGCAAAGGTGCT  
 GGATCAAAGCACCTCCTGGAGTGCAGCGCTGCCGCCATGCATACCACCCGGCCTGTCTGGGGCCAGCT  
 ATCCAACCCGGGCCACCGCAACCGGCCACTGGATCTGTTACGCTGTGTGCGCTGTAAGAGCTGTGG  
 GGCAACTCCAGGCAAGAACTGGGACGTGAGTGGTCTGGAGATTACAGCCTTGCCTCCAGGTGCACCCAG  
 CTATATGAGAAAGGAACTACTGCCGATCTGTACACGCTGCTATGAAGACAACGACTATGAGAGCAAGA  
 TGATCAGTGCACAGTGGATCACTGGTGCATGCCAAGTGCAGGGGCTCTCAGATGAAGACTACGA  
 GATCCTTTTCAGGACTGCCAGACTCGGTGCTGTACACCTGCGGACCGTGTGCTGGGGCAGCGCAGCCCCG  
 TGGCGAGAGGCCCTGAGCGGGGCCCTCCAGGGGGCCTGCGCCAGGTGCTCCAGGCCTGCTGAGCTCCA  
 AGGTGGTGGGCCACTGTGCTGTGCACCCAGTGTGGCCAGATGGGAAGCAACTGCACCCAGGACCCCTG  
 CGGCCTGCAAGCTGTGAGTCAAGCCTTCGAGGATGGCCACTACAAGTCTGTGCACAGCTTCATGGAGGAC  
 ATGGTGGGCATCCTCATGCGGCACTCGGAGGAGGAGAGACCCCGGACCGCGGGCTGGAGGCCAGATGA  
 AGGGGCTCCTGCTGAAGCTGCTAGAATCTGCGTTGCGTGGTTCGACGCCACGACCCCAAGTACTGGCG  
 ACGGAGTACCCGGCTGCCAACGGAGTCTTCCCAATGCGGTGTTGCCCCATCCCTGGATCATGTCTAT  
 GCGCAGTGGAGACAGCAGGAACAGAGACCCAGAATCAGGGCAGCCTCCAGGGATCCCTCAGCAGCAT  
 TCCAGGGCAAGGATCCGGCTGCCTTCTCACACCTGGAGGACCCCGTCAAGTGTGACTCTGCCTCAAATA  
 CGGGGATGCAGACTCCAAGGAGGCGGGCGGCTTGTACATCGGGCAGAACGAGTGGACACACGTCAAC  
 TGTGCCATCTGGTCCGGGAAGTCTTCGAGGAGAACGACGGCTCCCTCAAGAATGTGCATGCTGTGTTGG  
 CCCGAGGGAGGCAGATGCGCTGCGAGCTGTGCTGAAGCCTGGCGCCACGGTGGGCTGCTGCCTGTCCCTC  
 CTGCTCAGCAACTTCCACTTATGTGTGCCCGGGCCAGCTACTGCATCTTCCAGGATGACAAGAAAGTC  
 TTCTGCCAGAAACACACTGATCTCCTGGATGGCAAGGAAATTGTGAACCCGATGGTTTTGATGTTCTCC

GCCGAGTCTATGTGGACTTCGAGGGCATCAACTCAAGCGGAAGTTCTTGACGGGGCTTGAACCCGATGC  
 CATCAACGTGCTCATTGGTTCCATCCGCATTGACTCCCTGGTACTCTGTCTGATCTCTCGGACTGCGAG  
 GGACGGCTCTTCCCCATTGGCTACCAGTGTCCCGTCTGTACTGGAGCACAGTGGATGCTCGGAGGCGCT  
 GCTGGTATCGGTGCCAATTCTGGAGTATCGGCCATGGGGCCGAGGGAAGAGCCAGCTCACCTGGAGGC  
 TGCAGAGGAGAACCAGACCATTGTGCACAGCCCCGCCCTTCTCAGAGCCCCAGTGGTGAGGACCCC  
 CCCTGGACACAGATGTTCTTGTCCCTGGAGCTCCTGAGCGCCACTCGCCATTGAGAACCTGGACCCTC  
 CACTGCGGCCAGATTGAGCAGCGCCCTCCTCCAGCCCCCTCTTTTTCGGGGCTCGAATCAAAGT  
 GCCAACTACTCGCCATCCCGGAGGCCCTTGGGGGTGTCTCCTTTGGCCCCCTGCCCTCCCTGGAAGT  
 CCATCTTCACTGACCCACCACATCCCCACAGTGGGAGACCCGGACTTCCAGCTCCCCCAGACGTTCCC  
 GTCGTCCCAGCCCTTTGGCTCCCAGGCCGCTCCATCACGGTGGGCTCCCTCTCTAAAACTCCCC  
 TCAGCTCAGGGTCCCCCTCCTACCTCAGTCGTACAGCCCTCACACCTACCTCAGGGGAGCTGGCTCCC  
 CCTGGCCCCGCCCATCTCCACCACCCCTGAAGACCTGGGCCAGACTTCGAGGACATGGAGTGGTGT  
 CAGGACTGAGTGTGCTGACCTGGACTTCGCGGCCAGCCTGTGGGGACTGAGCCCTCCAGGAAGAGAT  
 TGTAGCCGCTGGGGCCATGGGGAGCAGCCAGGGGGCCGGGGGACAGCTCCGAGGAGGAGTCCAGCCCC  
 ACCTCCCGCTACATCCACTTCCCTGTGACTGTGGTGTCCGCCCTGGTCTGGCCCCAGCGCTACCCCTG  
 GAGCCCCCGCATTGAACAGCTGGACGGGTGGACGACGCACTGACAGTGAGGCTGAGGCGGTGACGCA  
 GCCTCGGGGCCAGGGCACGCCTCCTTCGGGGCCAGGAGTGTCCGGGCAGGGGTCTTGGGGCTGCAGGG  
 GACAGGGCCCGCCTCCTGAGGACCTGCCATCGGAAATTGTGGATTTTGTGTTGAAGAACCTAGGGGGT  
 CTGGGGATGGAGGTGCTGGCCCTAGAGAGGAGTCACTCCCCCGGCGCCTCCCCTGGTAATGGCAGCCA  
 GCCCTCCAAGGCCTGACCGCCAGCCAGCTGACCCACCCGCACATTTGCTGGCTCCCAGGGGCCCA  
 GGGGTCCGGGTGTTAAGCCTTGGCCCTGCCCTGAGCCCCCAAACCCGCCACATCCAAAATCATACTTG  
 TCAACAAGCTGGGGCAAGTATTTGTGAAGATGGCTGGGGAGGGTGAACCTGTCCACCCCCAGTGAAGCA  
 GCCACCTTTGCCCCCAACATTTCCCCACGGCTCCCACCTCTGGACTGCCCCCAGGCCCCCTCCTC  
 GGCGTGTGCCCGTGGTGGAGTGGTCCGCCCTGCCCGCCCCGCCACCCCTCCCCTGACGCTGGTGC  
 TGAGCAGTGGGCCAGCCAGCCCGCCCGCCAGGCCATCCGCGTCAAGAGGGTGTCCACTTCTCCGGCCG  
 GTCGCCCGCAGCACCTCCCCATACAAAGCCCCCGGCTGGATGAAGATGGAGAGGCTCAGAGGATAACC  
 CCTCAGGTTCCAGGGCTTGGCAGTGGCGGGTTAGCCGTGTGAGGATGAAAACCCCCACAGTGCCTGGGG  
 TCCTTGACCTGGATCGGCCTGGGAGCCCGCTGGGAAGAAAGTCTGGGCCCTCCAGGAACGGTCCCC  
 TTTGCTGCCACTCCGGAAGATGGTCTCCCCAGGTCCCGATGGTCCCCAGACCTGCTGCTTGAAGTCC  
 CAGTGGCACCCTATTAGGTGAGGCTTCGAGCTCTGAGGAAGAGCTCCATCCCAGATGATAAGAGA  
 ACCAGGCCCAAACGGACTGGCCACATCTGCGCTTCGAGATCAGCAGTGGATGGGTTGAGCGTTGA  
 GGCAGAGAGCTTGGAGGGGGCGTGGAGAACTCTGATCGAGAAAGTGAAGAGGCCCGAGGGCATGCCCGA  
 CTCAGACATCTCTCTTTAGTGAATGAGTGGGGCGAGACTCCTGGGCATCCACCATGATGCTGTATCT  
 TCCTGGCCGAGCAGCTCCCCGGAGCCAGCGTTGCCAGCACTATAAGTTCGGTACCACCAGCAGGGAGA  
 GGGCCAGGAGGAGCCGCCCTGAATCCCATGGGGCTGCTCGGGCAGAGGTCTATCTCCGGAAGTGACC  
 TTTGACATGTTCAACTTCTGGCCTCCCAGCACCAGGCTGCTCCCTGAGGGGGCCACTGTGATGAGGAAG  
 AGGATGAGGTGCAGCTCAGGTCAACCAGACGTGCCACCAGCTGGAGCTGCCATGGCCATGCGTTTTG  
 TCACCTTAAGAAGACGTCAAAGAAGCTGTGGGTGTCTACAGATCAGCCATCCACGGCCGAGGCCCTGTT  
 TGTAAAGCGCAACATCGACGCGGGGAGATGGTATCGAGTACTGGCATTGTGATCCGCTCGGTGTTGA  
 CTGACAAGCGGGAGAAGTTCTACGATGGGAAGGCATCGGGTGTATATGTTCCGCATGGATGACTTTGA  
 TGTAGTGGACGCCAGATGCATGGCAATGCCGCCGCTTCAACCACCTCCTGTGAGCCCAACTGCTTC  
 TCTCGGGTTCACAGTGGAGGGCCAGAAACACATTGTTATCTTCGCCCTGCGCCGATCCTGCGTGGT  
 AGGAGCTCACCTACGACTACAAGTTCCCATCGAGGATGCCAGCAACAAGCTGCCCTGCAACTGTGGCG  
 CAAGCGCTGCCGTGGTTCCTTAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG220130 representing NM\_014727  
 Red=Cloning site Green=Tags(s)

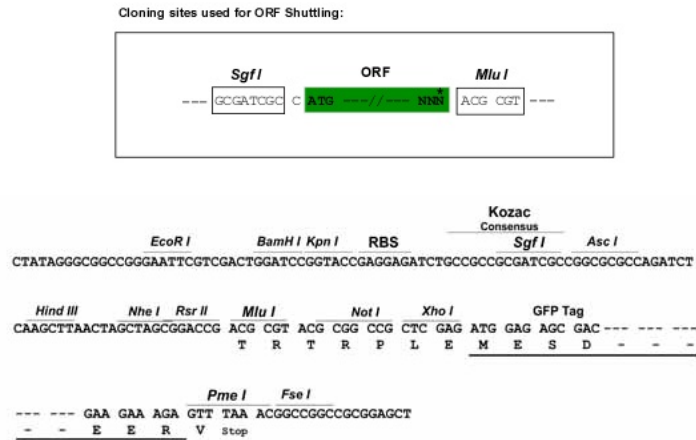
```

MAAAAGGSGCPGPGSARGRFPGRRGAGGGGGRRGNGAERVVVALRRGGGATGPGGAEPGEDTALLRL
LGLRRGLRRLRRLWAGPRVQRGRGRGRGWGSPRGCVPEEESDGESEEEFQGFHSDEEDVAPSSLRSA
LRSQRGRAPRGRGRKHKTTPLPPPRLADVAPTPPKTPARKRGEETERMVALTELLRRAQAPQAPRSRA
CEPSTPRRSRGRPPGRPAGPCRKRKQAVVVAEAAVTIPKPEPPPPVVPVKHQGTGSWKCKEGPSPGPTPR
RGGQSSRGRGRGRGRGGGLPFVIKVFVSRAKKVKMGQLSLGLESGQGQGHHEESWQDVPQRRVSGQGG
SPCWKKQEQLDDEEEKKEEKEEKEEKEEERVAEEMMPAAEKEEAKLPPPPLTPPAPSPPPPLPPP
STSPPPPLCPPPPPVSPPLPSPPPPAQEEQEEESPVPVATCSRKRGRPPLTPSQAEREAARAGPE
GTSPTPTSTATGGPPEDSPTVAPKSTTFLKNIRQFIMPVVSARSSRVIKTPRRFMDEDPPKPKVEVS
PVLRRPITTSPPVQEPAPVSPPRAPTTPSTPVPLPEKRRSILREPTFRWTSLTRELPPPPAPPPPPA
PSPPPAPATSSRRPLLRAPQFTPSEHLKIYESVLTTPPLGAPEAPEPEPPADDSPAEPPEPRAVGRTN
HLSLPRFAPVVTTPVKAEVSPHGAPALSNGPQTQAQLLQPLQALQTLQPLQALPPPQQLQPPSPQMP
PLEKARIAGVGSPLSGVEEKMFSLKRAKVQLFKIDQQQQKVAASMPSPGGQMEEVAGAVKQISDRG
PVRSSESVAKRERPSGPESPVQGPRIKHVCRHAAVALQARAMVPEDVPRLSALPLRDRQDLATEDTS
SASETESVPSRRRKVEAAGPGGESEPTGSGGTLAHTPRRSLPSHHGKMRMARCGRCLRVQDCGS
CVNCLDKPKFGGPNKKQCCVYRKCDKIEARKMERLAKKGRITVKTLLPWSDESPEASPPGPRRGAG
AGGPREEVVAHPGPEEQDSSLQRKSARRCVKQRPSTYDIFEDSDDSEPGPPAPRRRTPRENELPLPEPEE
QSRPRKPTLQPVLLKARRRLDKDALAPGFASFNGWTGKQKSPDGVHRVVRVDFKEDCDLENVLMGGL
SVLTSVPGGPPMVCLLCASKGLHELVCQVCCDPFHPFCLEEAERPLQHHDTWCCRRCKFCHVCGRKR
GSKHLLCERCERHAYHPACLGPSYPTTRTRKRHHWICSACVRCCKSGCATPGKNWDVWESGDSLCPRTQ
LYEKGNYCPICTRCYEDNDYESKMMQCAQCDHWVHAKCEGLSDEDYEILSGLPDSVLYTCGPCAGAAQPR
WREALSGALQGGRLRQVLQGLLSKVVGPLLLLCTQCGPDGKQLHPGPCGLQAVSQRFEDGHYKSVHFSMED
MYGILMRHSEEGETPDRRAGGMKGLLLKLLLESAGFWFDAHDPKYWRRSTRPNGVLPNAVLPPLSDHVV
AQWRQEPETPESGQPPGDPAAAFQGKDPAAAFSHLEDPRQCALCLKYGDADSKEAGRLLYIGQNEWTHVN
CAIWSAEVFEENDGSLKNVHAAVARGRQMRCELCLKPGATVGCCLSSCLSNFHFMCARASYCIFQDDKKV
FCQKHTDLLDGKEIVNPDGFDVLRVYVDFEGINFKRKFLTGLEPDAINVLIGSIRIDSLGTLSDLSDCE
GRLFPIGYQCSRLYWSTVDARRRCWYRCRILEYRPWGPREEPAHLEAAEENQTIHVSPAPSEPPGGEDP
PLDTDVLPVGPAPERHSPIQNLDPPLRPDSGSAPPPAPRSFSGARIKVPNYSPRRPLGGVSFGPLSPGS
PSSLTHHIPTVGDPDFPAPRRSRPSLAPRPPSRWASPLKTSPLRVPPPTSVVTALTPTSSELAP
PGPAPSPPPEDLGPDFEDMEVVSGLSAADLDFASLLGTEPFQEEIVAAGAMGSSHGGGDSSEEESSP
TSRYIHFPVTVVSAPGLAPSATPGAPRIEQLDGVDGTDSEAEAVQQPRGQGTTPSGPGVVRAGVLGAAG
DRARPPEDLPSEIVDFVLKNLGGPGDGGAGPREESLPPAPPLANGSQPSQGLTASPADPTRTFAWLPGAP
GVRVLSLGAPEPPKATSKIIILVNKLQVFKMAGEGEPVPPVVKQPPLPPTISPTAPTSTWTLPPGPLL
GVLVVGVRPAPPPPPPLTLVSSGPASPPRQAIRVKRVSTFSGRSPAPPYKAPRLDEDEGEASEDT
PQVPLGSGGF SRVRMKTPTVRGVLDLDRPGEPAGEESGPLQERSPLLPEDGPPQVDPGPDLLLES
QWHHYSGEASSSEEEPPSPDDKENQAPKRTGPHLRFEISSEDFVVEAESLEGAWRTLIEKVQEARGHAR
LRHLSFGMSGARLLGIHDAVIFLAEQLPGAQRQCQHYKFRYHQGEGQEEPLNPHGAARAEVYLRKCT
FDMFNFLASQHRVLPAGATCDEEEDVQLRSTRATSLLELPMAMRFRHLKKTKEAVGVYRSIAHGRGLF
CKRNI DAGEMVIEYSGIVIRSVLTDKREKFDYDGKIGCYMFRMDDFDVVDATMHGNAARFINHSCEPNCF
SRVIVHEGQKHIVIFALRRILRGEELTYDYKFPIEDASNKLPNCNGAKRCRRFLN
  
```

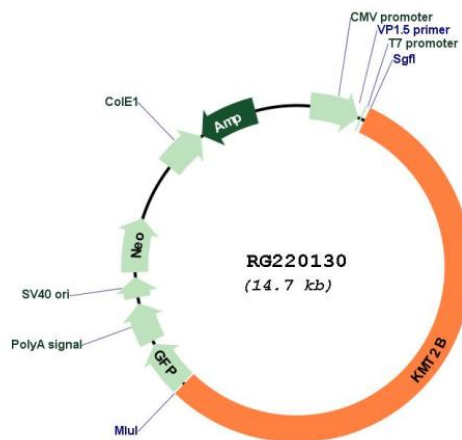
TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



<b>ACCN:</b>	NM_014727
<b>ORF Size:</b>	8145 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_014727.3</a>
<b>RefSeq Size:</b>	8469 bp
<b>RefSeq ORF:</b>	8148 bp
<b>Locus ID:</b>	9757
<b>UniProt ID:</b>	<a href="#">Q9UMN6</a>
<b>Cytogenetics:</b>	19q13.12
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a protein which contains multiple domains including a CXXC zinc finger, three PHD zinc fingers, two FY-rich domains, and a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain. The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. This gene is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer. Two alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene, however, the full length nature of the shorter transcript is not known. [provided by RefSeq, Jul 2008]