

Product datasheet for **RG220258**

MYCT1 (NM_025107) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYCT1 (NM_025107) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYCT1
Synonyms:	MTLC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220258 representing NM_025107 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGAACACAAGTATATGAGGGTGTGTAAAAATTATTTTTCTTGTGCTACTACAAAGAGATAGAA
TCAAAGTCTTTTTTCGACATACTGGTTTTCTTTCTGTTTTCTTCTTTCTTCTATTTCTTGGA
TATTATGGCTAATAACACAACAAGTTTAGGGAGTCCATGGCCAGAAAACCTTTGGGAGGACCTTATCATG
TCCTTCACTGTATCCATGGCAATCGGGCTGGTACTTGGAGGATTTATTTGGGCTGTGTTCAATTTGTCTGT
CTCGAAGAAGAAGAGCCAGTGTCCCATCTCACAGTGGAGTTCAAGCAGGAGATCTAGGTCTTCTTACAC
CCACGGCCTCAACAGAAGTGGATTTACCGCCACAGTGGCTGTGAACGTGAAGCAACCTCAGCCTGGCC
AGTCTCACCTTCCAGCGACAAGTTCCTGGAACAAGCAAATTCCTTTCCAAGAAAATCAAGTTTCAGAG
CTTCTACTTTCCATCCCTTTCTGCAATGTCCACCACTTCTGTGGAAACTGAGAGTCAGCTGGTACTCT
CCCTTCTTCCAATATCTCTCCCACCATCAGCACTTCCCACAGTCTGAGCCGTCCTGACTACTGGTCCAGT
AACAGTCTTCGAGTGGGCTTTCAACACCGCCCCACCTGCCTATGAGTCCATCATCAAGGCATTCCAG
ATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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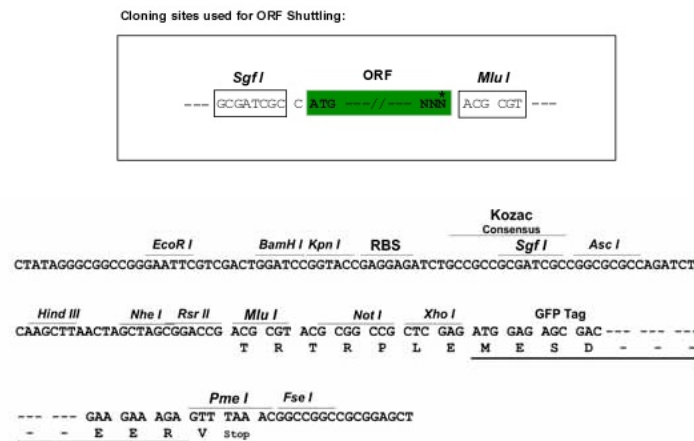
Protein Sequence: >RG220258 representing NM_025107
Red=Cloning site Green=Tags(s)

MRTQVYEGLCKNYFSLAVLQRDIKLLFFDILVFLSVFLLFLLFLVDIMANNTTSLGSPWPENFWEDLIM
 SFTVSMIAIGLVGGFIWAVFICLSRRRRASAPISQWSSRRRSRYTHGLNRTGFYRHSGCERRSNLSLA
 SLTFQRQASLEQANSFPRKSSFRASFTFHPFLQCPPLPVETESQLVTLPSNISPTISTSHLSRPDYWSS
 NSLRVGLSTPPPPAYESI IKAFPDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025107

ORF Size: 705 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.

RefSeq: [NM_025107.2](#), [NP_079383.2](#)

RefSeq Size: 1095 bp

RefSeq ORF: 708 bp

Locus ID: 80177

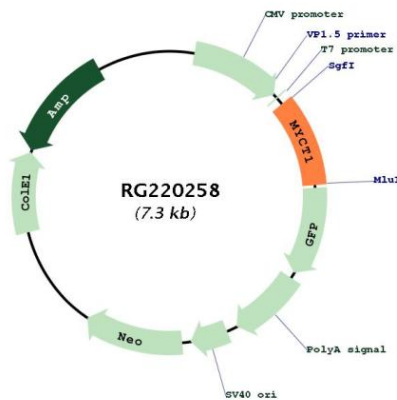
UniProt ID: [Q8N699](#)

Cytogenetics: 6q25.2

Protein Families: Transmembrane

Gene Summary: May regulate certain MYC target genes, MYC seems to be a direct upstream transcriptional activator. Does not seem to significantly affect growth cell capacity. Overexpression seems to mediate many of the known phenotypic features associated with MYC, including promotion of apoptosis, alteration of morphology, enhancement of anchorage-independent growth, tumorigenic conversion, promotion of genomic instability, and inhibition of hematopoietic differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220258