



## pTRIP-MND-HsMAN1C1-1-630-cMycFlag-hPGK-GFP(SC1109)

**LTR** 1..634

/note = 3' LTR

**vector** 1..2761, 4770..12890

/source = pTRIP-MND-hPGK-GFP(SC1091)

/type = Custom cloned vector digested by BamHI and treated with T4 DNA polymerase

/dnas\_title = pTRIP-MND-hPGK-GFP(SC1091);+

**misc\_signal** 681..806

/note = HIV-1 Psi

/note = Packaging signal of human immunodeficiency virus type 1

**misc\_signal** 1299..1532

/note = RRE

/note = The Rev response element (RRE) of HIV-1 allows for Rev-dependent mRNA export from the nucleus to the cytoplasm

**misc\_signal** 2054..2171

/note = cPPT/CTS

/note = Central polypurine tract and central termination sequence of HIV-1

**promoter** 2216..2761

/note = MND promoter

**insert** 2744..4787

/source = PCR-HsMAN1C1-1-630(SR0817)

/type = PCR product treated with T4 DNA polymerase

**RBS** 2767..2781

/note = kozak

**gene** 2782..4671

/note = HsMAN1C1-1-630

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/translation = MLMRKVPGFVPASPWGLRPLPQKFLFLLFSLGLVTLFCGALFLLPHSSRLKRLFLAPRTQQPGLEVVVAEIAGHAPAREQEPPPN
PAPAAPAPGEDDPSSWASPRRRKGGRLRRTRPTGPREEATAARGNSIPASRPGDEGVPRFRDFNAFRSRLRHPVLGTRADE
SQEPQSQVRAQREKIKEMMQFAWQSYKRYAMGKNELRPLTKDGYEGNMFGGLSGATVIDSLDTLYLMELKEEFQEAKAWV
GESFHLNVSGEASLFEVNIRYIGLLSAFYLTGEEVFRIKAIKRLGKLLPAFNTPTGIPKGVVSFKSGNWGWATAGSSSILAEFG
SLHLEFLHLTELSGNQVFAEKVRNIRKVLKIEKPFGLYPNFLSPVSGNWVQHHVSVGGLGDSFYEYLIKSWLMSGKTDMEAK
NMYYEALEAIETYLLNVSPGGLTYIAEWRGGILDHKMGHLACFSGGMIALGAEDAKEEKRAHYRELAQAQITKTCHESYARSDT
KLGPEAFWFNSGREAVATQLSESYIYLRPEVVESYMYLWRQTHNPIYREWGWEVVLVALEKYCRTEAGFSGIQDVYSSTPNH
DNKQQSFFLAETLKYLYLLFSEDDLSSLEDWVFNTEAHPLPVNHSDSSGRAWGRH

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**C\_region** 4690..4719

/note = cMyc C-ter

/translation = EQKLISEEDL

**C\_region** 4738..4761

/note = Flag C-ter

/translation = DYKDDDDK

**misc\_feature** 4765..4767

/note = Stop codon

## pTRIP-MND-HsMAN1C1-1-630-cMycFlag-hPGK-GFP(SC1109)

**promoter** 4779..5289

/note = hPGK promoter

**gene** 5305..6024

/note = EGFP

/translation = MVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLT LKFICTTGKLPVPWPTLVTTLT YGVQCFSRYPDHMKQH  
DFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNF  
KIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITLGMDELYK**LTR** 6310..6490

/note = 5' LTR

**gene** 8621..9481

/note = ampR

/translation = MSIQHFRVALIPFFAAFC LPVFAHPETLVKVKDAEDQLGARVGYIELDLNSGKILESFRPEERFPMMSTFKVLLCGAVLSRIDAG  
QEQLGRRRIHYSQNDLVEYSPVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFLHNMGDHSVTRLD RWEPEL  
NEAIPNDERDTTMPVAMATTLRKLLTGELLTLASRQQLIDWMEADK VAGPLLR SALPAGWFIADKSGAGERGSRGIIAALGPD  
GKPSRIVVIYTTGSQATMDERNRQIAEIGASLIKHW**rep\_origin** 9626..10299

/note = ColE1 ori

**promoter** 10486..10815

/note = SV40 promoter

**intron** 11949..12014

/note = Small t intron

**polyA\_signal** 12589..12723

/note = SV40 polyA signal

pTRIP-MND-HsMAN1C1-1-630-cMycFlag-hPGK-GFP (SC1109)

Absent Sites	0	AarI, AbsI, BmtI, BstBI, BstZ17I, FseI, FspAI, MauBI, MreI, MteI, NdeI, NheI, PmeI, RsrII, SacII, Sall, SbfI, SgrDI, SnaBI, SrfI, SwaI
Acc65I	1	6161 (12890)
AfeI	1	8077 (12890)
AjuI	1	3855 (12890)
AjuI'	1	3887 (12890)
AlaI	1	2555 (12890)
AlaI'	1	2587 (12890)
ArsI	1	5600 (12890)
ArsI'	1	5568 (12890)
AscI	1	5125 (12890)
AsiSI	1	2778 (12890)
AvrII	1	10801 (12890)
BarI	1	11875 (12890)
BarI'	1	11907 (12890)
BclI	1	3969 (12890)
BsiWI	1	4676 (12890)
BspMI	1	7785 (12890)
BstEII	1	2878 (12890)
CspCI	1	3675 (12890)
CspCI'	1	3710 (12890)
HpaI	1	12589 (12890)
KpnI	1	6165 (12890)
NruI	1	834 (12890)
PacI	1	6783 (12890)
PmlI	1	291 (12890)
PshAI	1	11631 (12890)
PspXI	1	4688 (12890)
PsrI	1	3554 (12890)
PsrI'	1	3586 (12890)
SanDI	1	1931 (12890)
SgrAI	1	7991 (12890)
SpeI	1	5036 (12890)
Tth111I	1	6947 (12890)
XbaI	1	2603 (12890)