

Product datasheet for **RG218458**

POTEE (NM_001083538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POTEE (NM_001083538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POTEE
Synonyms:	A26C1; A26C1A; CT104.2; POTE-2; POTE2; POTE2gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218458 representing NM_001083538 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGTTGAGGTTGATTCCATGCCGGCTGCCTCTTCTGTGAAGAAGCCATTTGGTCTCAGGAGCAAGA
TGGGCAAGTGGTCTGCCGTTGCTTCCCCTGCTACAGGGAGAGCGGCAAGAGCAACGTGGGCACTTCTGG
AGACCACGACGACTCTGCTATGAAGACACTCAGGAGCAAGATGGGCAAGTGGTCCACCACTGCTTCCCC
TGCTGCAGGGGGAGTGGCAAGAGCAACGTGGGCGCTTCTGGAGACCACGACGACTCTGCTATGAAGACAC
TCAGGAACAAGATGGGGAAGTGGTCTGCCACTGCTTCCCCTGCTGCAGGGGGAGCGGCAAGAGCAAGGT
GGGCGCTTGGGGAGACTACGATGACAGCGCCTTCATGGAGCCCAGGTACCACGTCCGTGGAGAAGATCTG
GACAAGCTCCACAGAGCTGCCTGGTGGGTAAAGTCCCCAGAAAGGATCTCATCGTCATGCTCAGGGACA
CTGACGTGAACAAGAAGGACAAGCAAAAGAGGACTGCTCTACATCTGGCCTCTGCCAATGGGAATTCAGA
AGTAGTAAACTCCTGCTGGACAGACGATGTCAACTTAATGTCTTGACAACAAAAGAGGACAGCTCTG
ATAAAGGCCGTACAATGCCAGGAAGATGAATGTGCGTTAATGTTGCTGGAACATGGCACTGATCCAAATA
TTCCAGATGAGTATGGAAATACCACTCTGCACTACGCTATCTATAATGAAGATAAATTAATGGCCAAAGC
ACTGCTCTTATATGGTGTGATATCGAATCAAAAAACAAGCATGGCCTCACCACTGTTACTTGGTGTA
CATGAGCAAAAACAGCAAGTCGTGAAATTTTAAATCAAGAAAAAGCGAATTTAAATGCCTGGATAGAT
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AAATATTGATGTATCTTCTCAAGATCTATCTGGACAGACGGCCAGAGAGTATGCTGTTTCTAGTCATCAT
CATGTAATTTGCCAGTTACTTTCTGACTACAAAGAAAAACAGATGCTAAAAATCTCTTGAAAACAGCA
ATCCAGAACAAGAGTTAAAGCTGACATCAGAGGAAGAGTCACAAAGGTTCAAAGGAGTGAAGAAAGTGAAG
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GTATCACAGAATTGTGAATTACTTTCTGACTACAAAGAAAAGCAGATGCCAAAATCTCTTGAAAAC



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AGCAACCCAGAACAAGACTTAAAGCTGACATCAGAGGAAGAGTCACAAAGGCTTAAAGGCAGTGAAAATG
GCCAGCCAGAGAAAAGATCTCAAGAACCAGAAATAAATAAGGATGGTGATAGAGAGCTAGAAAATTTTAT
GGCTATCGAAGAAATGAAGAAGCACGGAAGTACTCATGTGCGATTCCAGAAAACCTGACTAATGGTGCC
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CTACCTCATGAAGATCCTCACCAGCGTGGCTATAGGTTACACCACATGGCCGAGCGGGAATCGTGCGT
GACATCAAAGAGAAGCTGTGCTATGTTGCCCTGGACTTCGAGCAGGAGATGGCCACGGCGGCTCCAGCT
CCTCCCTAGAGAAGAGCTACGAGCTGCCGATGGCCAGGTATCACCATCGGCAACGAGCGGTCCGCTG
CCCCGAGGCGCTCTTCCAGCCTTGCTTCTGGGCATGGAATCCTGTGGCATCCATGAACTACCTTCAAC
TCCATCATGAAGTCTGATGTGGACATCCGCAAGACCTGTACACCAACACAGTGTGTCTGGCGGCCA
CCATGTACCCTGGCATGGCCACAGAATGCAGAAGGAGATCGCTGCCCTGGCGCCTAGCATGATGAAGAT
CAGGATCATTGCTCCTCCAAGCGCAAGTACTCCGTGTGGTGGTGGCTCCATCCTGCGCTCGTGTCC
ACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGATGAGTCAGGCCCTCCATTGTCCACCGCAAT
GCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218458 representing NM_001083538

Red=Cloning site Green=Tags(s)

MVVEVDSMPAASSVKKPFGLRSKMGKWCRCFPCYRESGKSNVGTSGDHDDSAMKTLRSKMGKWCHHCFP
CCRGSGKSNVGASGDHDDSAMKTLRNKMGKWCCHCFPCCRGSGKSKVGAWGDYDDSAFMEPRYHVRGEDL
DKLHRAAWWGKVPKDLIVMLRDTDVNKKDKQKRTALHLASANGNSEVVKLLLDRRCLNVLDNKKRTAL
IKAVQCQEDECALMLLEHGTDPNIPDEYGNNTLHYAIYNEDKLMAKALLYGADIESKNKHGLTPLLLGV
HEQKQQVVKFLIKKKANLNALDRYGRALILAVCCGSASIVSLLLEQNIDVSSQDLSGQTAREYAVSSHH
HVICQLLSDYKEKQMLKISSENSNPEQLKLTSEESQRFKGSSENSQPEKMSQLEINKDGDREVEEEMK
KHESNNVGLLENLTNGVTAGNGDNLIPQRKSRTPENQQFPDNESEEYHRICELLSDYKEKQMPKYSSEN
SNPEQDLKLTSEESQRLKGSSENSQPEKRSQPEINKDGDRELENFMAIEEMKKHGSHVGFPENLNGA
TAGNGDDGLIPPRKSRTPESSQFPDTEENEEYHSDEQNDTQKQFCEEQNTGILHDEILIEEEKQIEVVEKM
NSELSSLCKKEKDVLENSTLREEIAMLRLDLMKHQSQLREKKYLEDIESVKKKNDNLLKALQLNELT
MDDDTAVLVIDNGSGMCKAGFAGDDAPRAVFPISIVGRPRQQGMMGMHQKESYVGKEAQSKRGILTLKYP
MEHGIIITNWDMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVP
SLYTSGRITGIVMDSGDGVTHTVPIYEGNALPHATLRDLAGRELPDYLMKILTERGYRFTTMAEREIVR
DIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPCFLGMESCGIHETTFN
STMKSDVDIRKDLTYNTVLSGGTTMYPGMAHRMQKEIAALAPSMKIRIIAPPKRKYSVWVGGSILASLS
TFQQMWISKQEYDESGPSIVHRKCF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001083538

ORF Size: 3225 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_001083538.3](#)

RefSeq Size: 3440 bp

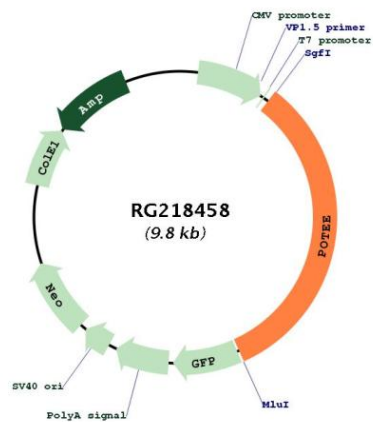
RefSeq ORF: 3228 bp

Locus ID: 445582

UniProt ID: [Q6S8J3](#)

Cytogenetics: 2q21.1

Product images:



Circular map for RG218458