

Product datasheet for **RG227124**

POTEH (NM_001136213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POTEH (NM_001136213) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POTEH
Synonyms:	A26C3; ACTBL1; CT104.7; POTE22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227124 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001136213, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGTTGCAGAGGCTGGATCCATGCCGGCTGCATCCTCAGTCAAGAAGCCATTCCGCCCTCCGCTCTAAGA
 TGGGTAAGTGGTGCAGGCATTGCTTCGCCTGGTGTGGGGGTGAGGTAAAAGTAATGTGGGAACCTCAGG
 GGACCACGATGATTCAGCTATGAAGACGCTGCGGAGCAAGATGGGGAAGTGGTGTGTCTACTGCTTTCT
 TGGTGTGGGGCTCTGGCAAATCCAACGTGGGCACGTCTGGCGACCACGATGACAGTGCGATGAAGACTC
 TGAGGAGTAAGATGGGGAATGGTGTGCCATTGTTTTCCATGTTGTAGAGGCTCCGGCAAGAGCAACGT
 TGGCACCAGCGGGGACCACGACGACAGGCCATGAAAACACTTCGGTCCAAGATGGGAAAGTGGTGTGC
 CACTGCTTCCCATGTTGCAGAGGTAGCGGAAAGAACAAAGTGGGTCTTGGGGAGACTACGACGACTCAG
 CCTTATGGAACCGCGGTACCACGTGAGAAGGGAAGACCTGGACAAGCTCCACAGGGCTGCCTGGTGGGG
 TAAAGTGCCTCGGAAGGATCTGATTGTGATGCTTAAAGACACTGACATGAACAAAAGGACAAGCAAAAA
 CGGACTGCTCTCCATCTGGCATCCGCCAACGGTAATAGCGAGGTCGTTAAGCTGCTTCTTGATAGGCGGT
 GTCAGCTGAACATCCTTGACAACAAGAAAAGAACTGCACTGACTAAGGCCGTGCAATGTCAAGAGGACGA
 GTGCGCCCTCATGTTGCTCGAACACGGGACCGATCCAAACATCCCAGACGAGTATGGGAATACAGCACTC
 CATTATGCTATCTACAATGAGGACAAGCTGATGGCGAAGGCACTGCTGCTGTATGGTGCCGACATTGAGT
 CCAAGAATAAGCATGGATTGACCCCCCTCCTCCTGGGTGTGCACGAACAGAAACAGCAGGTGCTGAAGTT
 TCTTATCAAGAAAAAGGCCAACCTGAATGCCCTGGATCGATACGGTAGAACTGCGCTGATTCTCGCGGTA
 TGTTGCGGAAGCGCTAGCATTGTATCTTCTGCTGGAGCAGAATATCGATGTGCTCTCCAGGATCTCA
 GCGGACAAACCGCTCGGGAATATGCAGTCAGCTCTAGACACAACGTAATCTGCCAGCTTCTGTCCGATTA
 TAAAGAAAAGCAGATCCTCAAAGTCTCATCCGAGAACTCTAACCCCGAGCAGGATCTGAAGCTGACCAGC
 GAAGAGGAGTCTCAGCGCTGAAAGGCTCTGAGAACAGCCAACCTGAGGAAATGTACAGGAACAGAAAA
 TTAACAAGGGCGGAGACAGGAAAGTGAAGAAGAAATGAAGAAACATGGCTCCACCCATATGGGGTTTCC
 GGAGAACCTGACCAATGGAGCCACGGCCGATAATGGAGATGACGGATTGATCCCCCCCCGAAAGAGCCGC
 ACCCCCGAGTCCAGCAATTCCCCGACACCGAAAATGAACAGTACCACTCCGACGAACAGAACGATACTC
 AGAAGCAACTGAGTGAGGAGCAGAATACTGGCATCCTTCAGGACGAAATCCTGATCCACGAGGAGAAAAA
 AATTGAGGTAGCCGAGAATGAATT

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

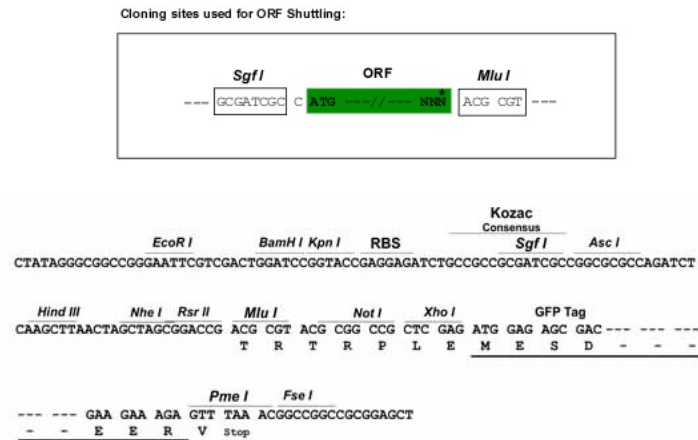
>RG227124 representing NM_001136213
 Red=Cloning site Green=Tags(s)

MVAEAGSMPAASSVKKPFGLRSKMGKWRHCFAWCRGSGKSNVGTSGDHDDSAMKTLRSKMGKWCHCFP
 WCRGSGKSNVGTSGDHDDSAMKTLRSKMGKWCHCFPCCRSGKSNVGTSGDHDDSAMKTLRSKMGKWCC
 HCFPCCRSGKSNKVGPDYDDSAFMEPRYHVRREDLKLHRAAWGKVPKDLIVMLKDTDMNKKDKQK
 RTALHLASANGNSEVVKLLLDRCQLNILDNKKRTALTAKAVQCQEDECALMLLEHGTDPNIPDEYGNAL
 HYAIYNEDKLMKALLLYGADIESKNKHGLTPLLLGVHEQKQVVKFLIKKKANLNALDRYGRALILAV
 CCGSASIVSLLLEQNIDVSSQDL SGQTAREYAVSSRHNVICQLLSYKEKQILKVSSSENSNPEQDLKLT
 SEESQRLKGSSENSQPEMSQPEINKGGDRKVEEEMKKHGSTMGFENLTNGATADNGDGLIPPRKSR
 TPESQFPDTEQYHSDEQNDTQKQLSEEQNTGILQDEILIHEEKQIEVAENEF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136213

ORF Size: 1635 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_001136213.1](#), [NP_001129685.1](#)

RefSeq Size: 2037 bp

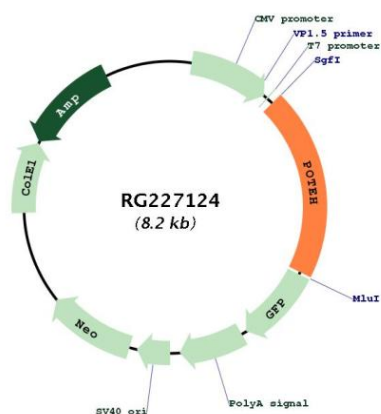
RefSeq ORF: 1638 bp

Locus ID: 23784

UniProt ID: [Q6S545](#)

Cytogenetics: 22q11.1

Product images:



Circular map for RG227124