

Product datasheet for **RG216907**

INTS10 (NM_018142) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INTS10 (NM_018142) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INTS10
Synonyms:	C8orf35; INT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG216907 representing NM_018142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCTGCCAGGGGACTGCGAGTTCCTGGTGCAGCGAGCCGGGAGTTGGTGCCGAAGACCTGTGGG
 CAGCCAAGGCGTGGCTGATCACGGCCCGCAGCCTCTACCGGCAGACTTTAACATCCAGTATGAGATGTA
 CACCATCGAGCGGAATGCAGAGCGGACCGCCACCGCGGAGGCTGCTGTACGACATGTTTGTGAATTTT
 CCAGACCAGCCGGTGGTGTGGAGAGAAATCAGCATTATTACATCAGCATTAAAGGAACGATTCACAGGACA
 AACAAACCCAATTTTAAAGAAGTTTATTTGAAACTCTTCTGGTCGGGTCCAGTGTGAAATGTTACTAAA
 GGTCACGGAACAATGCTTCAACACGTTAGAACGATCAGAAATGTTGCTTCTACTTTTGGGCGCTTCCCT
 GAAACGGTGGTGCAGCATGGGGTTGGCCTTGGGAGGCACTATTAGAGGTGAAACTATTGAAGAACAAG
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 TGTTTCGATTACCTGCCAATTTATTGTATAAGTACTTGAACAAAGCAGCTGAATTTTATATCAATTATGTC
 ACTAGGTCTACTCAAATAGAAAATCAGCATCAAGGCGCCAGGATACATCTGATTTAATGTCACCTAGCA
 AACGTAGCTCTCAGAAGTACATAATAGAAGGGCTGACGGAATAATCATCCAGATCGTGGACCTTGGGA
 GAGGTTGTTTAAAGATTTTGAATGTTGTTGGAATGAGATGTGAATGGCAGATGGATAAAGGAAGACGAAGC
 TATGGAGATATTTGCATAGAATGAAGGATCTCTGCAGATACATGAACAACTTTGATAGTGAAGCACATG
 CAAAATATAAAACCAAGTGGTGTATTCACCATTGCTGGTCTTCTTTAAGAATGCATTCCAGTATGTCAA
 CAGCATACAGCCATCTCTCTTCAAGGTCTAATGCCCGAGCCAAGTTCCTGCTTCTTGAAGAT
 GTATCGAATGTGATGGTGTATGAGAAATTGATCGTAATAAACACATCCATAAAAGAGGAACTAGCTG
 AAGGAAGAGAAAAACCATGAGTTCAGACGATGAAGACTGTTTCGGCGAAAGGAAGAAATCGTCACATTGT
 AGTCAATAAAGCCGAAGTCTGCTAACTCCACTGAAGTGTTAGAAAGCTTTAAATTGGCCAGGAGAGCTGG
 GAGTTGCTCTATTCCCTAGAATTCCTTGACAAAGAATTTACAAGGATTTGCTTGGCTGGAAGACGGATA
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 TGTCATAAAATTTGCCAACAAGGAAATTTCCAATATGAGAATTTTCAATTACGTTACAAATATTGAT
 ATGCTGGAGGAATTTGCCTACTTGAGAACTCAGGAAGGTGGGAAAATTCATCTGGAATTACTACCCAATC
 AAGGAATGCTGATCAAGCACCACTGTAACCTCGAGGCATCACCAAAGGCGTGAAGGAGGACTTTGCCT
 GGCCATGGAGCGCCAGGTCTCCCGCTGTGGAGAGAATCTGATGGTGGTTCTGCACAGGTTCTGCATTAAT
 GAGAAGATCTTGCTCCTCAGACTCTGACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

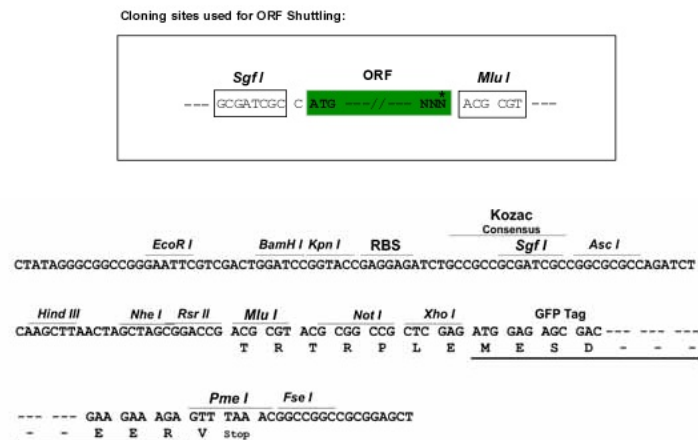
Protein Sequence: >RG216907 representing NM_018142
 Red=Cloning site Green=Tags(s)

MSAQGDCEFLVQRARELVPQDLWAAKAWLITARSLYPADFNIQYEMYTIERNAERTATAGRLLYDMFVNF
 PDQPVVWREISIIITSALRNDSDQDKQTQFLRSLFETLPGRVQCEMLLKVTEQCNTLERSEMLLLRRFP
 ETVVQHGVGLGEALLEAETIEEQESPVNCFRKLFVCDVPLIINNHDVRLPANLLKYLNKAAEFYINYV
 TRSTQIENQHQAQDTSMLMSPSKRSSQKYIIIEGLTEKSSQIVDPWERLFKILNVVGMRCQWMDKGRRS
 YGDILHRMKDLCRYMNNFDSEAHAKYKNQVVYSTMLVFFKNAFQYVNSIQPSLFQGPNAPSQVPLVLLD
 VSNVYGDVEIDRNKHIHKRKLAEGREKTMSSDDEDCSAKGRNRHIVVNKAELANSTEVLESFKLARESW
 ELLYSLEFLDKEFTRICLAWKTDTWLWLRIFLTDMIYQGGYKKAIASLHHLAALQGSISQPQITGQGT
 EHQRALQLATCHFALGEYRMTCEKVLDMCYMVLPIQDGGKSQEEPSKVPKFRKGSCLKLPCTSKAI
 MPYCLHMLACFKLRAFTDNRDDMALGHVIVLLQQEWPRGENFLKAVNKICQQGNFYENFNQYVTNID
 MLEEFAYLRTQEGGKIHELLEPNQGMLIKHTVTRGITKGVKEDFRLAMERQVSRGENLMVVLHRCIN
 EKILLQTLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018142

ORF Size: 2130 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_018142.4](#)

RefSeq Size: 2539 bp

RefSeq ORF: 2133 bp

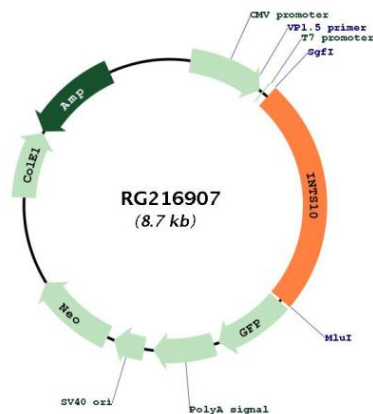
Locus ID: 55174

UniProt ID: [Q9NVR2](#)

Cytogenetics: 8p21.3

Gene Summary: INTS10 is a subunit of the Integrator complex, which associates with the C-terminal domain of RNA polymerase II large subunit (POLR2A; MIM 180660) and mediates 3-prime end processing of small nuclear RNAs U1 (RNU1; MIM 180680) and U2 (RNU2; MIM 180690) (Baillat et al., 2005 [PubMed 16239144]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG216907