

Product datasheet for **RC217456**

INTS1 (NM_001080453) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INTS1 (NM_001080453) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INTS1
Synonyms:	INT1; NDCAGF; NET28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217456 representing NM_001080453 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAACCGGGCCAAGCCACCACGGTGCGCCGGCCAGCGCCGCGGCCAAACCTCAGGGCACCTCCCC
CAGGAGACTTCATTGCTCTGGGCTCAAAGGGTCAGGCCAATGAATCGAAAACGGCGTCCACCCTGCTGAA
GCCAGCCCTTCCGGCTGCCTTCTGAGCGCAAGCGGGATGCGGCGGCCGCGTTGTCCAGTGCCTCGGCC
CTCACCGGTCTACCAAACGCCCCAACTCTCCTCACACCCCTCTGAGTGCCCTGGGGCGCTGGCTG
AGGCTGCAGTGGCAGAAAACGAGCCATTTCTCCGTCGATTAAAGAGCCATCTGTGGTGCCAATTGAAGT
GCTGCCACGGTCTGCTGGATGAGATCAGAGCGGCCGAGCTGGAGGGCAACGATGACAGGATCGAGGGC
GTGCTGTGCGGGGCGTGAAGCAGCTGAAGGTACCCGCGCCAAGCCTGACAGCACCTCTACCTGAGCC
TCATGTACCTGGCCAAGATCAAGCCCAACATCTTCGCCACTGAGGGCGTCATTGAGGCTCTGTGTAGCCT
CCTGCGGCGGGACGCCTCCATCAACTTCAAGGCCAAGGGGAACAGCCTGGTGTCTGTGCTGGCCTGTAAC
CTCCTCATGGCCGCTACGAGGAGGACGAGAACTGGCCCGAGATCTTTGTCAAGGTGTACATCGAGGACT
CCCTGGGGGAGCGGATCTGGGTGGACAGCCCTCACTGTAAGACGTTTGTGGACAACATCCAGACGGCCTT
CAACACCAGAATGCCCCCAGGAGCGTGCTGCTGCAGGGGAGGGCGGCCGCGTTGCGGGCGACCTGGGT
GCAGGGAGCAGCCACACCCCTCCCTCACGGAGGAGGAGGACAGCCAGACGGAGTTGCTGATCGCGGAGG
AGAAGCTGAGCCCGAGCAGGAGGGCCAGCTCATGCCAGGTACGAAGAGCTCGCGGAGAGCGTGGAGGA
GTATGTCTGGACATGCTGCGGGACAGCTGAACCGGCGCCAGCCATCGACAACGTCTCCAGGAACCTC
CTGCGGCTCCTCACCTCCACCTGCGGCTATAAGGAGGTGCGGCTGCTGGCGGTGCAGAAGCTGGAGATG
GGCTGCAGAACCCCAAGCTGACCCGGCCGGCCAGGACCTGCTGATGTCCGTCTGCATGAAGTGAACAC
GCACGGTTCGAAGACATGGACGTCTACACCTGATCAAGATCCGCCTCAAGCCCAAGGTCTCTCTC
AACCATTCTGCTGTGCATCAGGAGCTGCTGAGCGCGCACAAGGACAACCTGGGCACCACCATCAAGT
TGGTGATCTTCAATGAGCTCTCAGCGCCCGGAACCCGAACAACATGCAGGTCTCTATACCGACTGCA
GCACAGCTCAGAGCTGGCGCCCAAGTTCTGGCCATGGTGTCCAGGACCTGCTGACCAACAAGGACGAC



View online »

TACCTGCGGGCCTCGCGGGCCCTGCTGCGGGAGATCATCAAGCAGACCAAGCACGAGATCAACTCCAGG
CCTTCTGCCTGGGGCTCATGACGAGCGCAAGGAGCCGAGTACCTGGAGATGGAGTTCAAGGAGCGCTT
CGTGGTGACATCACCGACGTCTGCGCGTGTCATGATGCTGGGCATCACAGCGCAGGTGAAGGAGGCC
GGCATCGCCTGGGACAAAGGAGAAAAGAGGAACCTGGAAGTGCTCCGCTCATTCCAGAACCAGATTGCCG
CCATCCAGCGGGATGCCGTCTGGTGGTCCACACTGTGGTCCCTCCATCAGCAAGCTCGCCCTAAGGA
CTACGTGCACTGCCTGCACAAGTGCTGTTACAGAGCAGCCGGAGACCTACTACAAGTGGGACAACCTGG
CCACCCGAGAGTGACCGCAACTTCTTCTGCGTCTGTGCTCCGAGGTGCCATTTTGGAGGACACGCTGA
TGGCATCCTGGTCATCGGGCTGTCCCGGAGCTCCCGCTCGGGCTGCGGACGCCATGGAGCTTGCTGA
CCACCTGGTGAAGCGGGCGGCTGCCGTGACGGCGATGATGTGGAGTGCTGAAGGTGGGAGGACCCAG
CTGATCGACGCCGTTCTGAATCTGTGCACCTACCATCACCTGAAAACATCCAGCTCCCACCGGGTACC
AGCCTCCGAACCTCGCCATCTCTACCCTCTACTGGAAGGCTGGCCCTCCTGCTGGTCTGCGCGCATT
CAACCCAGAGAACATCGCCTGGCTGCGTGGGAGGAGTACCCGACCTGAAGATGCTCATGGAGATGGTG
ATGACCAACAACCTACTCTACCCACCGTGACCCCTGACGGATGAGGAGACCCGGACGGAGATGCTGAACC
GTGAGCTGCAGACCGCCAGCGGAGAGCAGGAGATCCTGGCCTTCGAGGGGCACCTGGCGGCCGCTC
CACCAAGCAGACCATCACTGAGAGCAGCAGCCTCCTCTGTCGACGCTACCAGCCTGGACCCCAAGGG
CCCCCGGAGGGCTCCCTCATCATCCTGGATCAAGTAAAAGCCTCAACCAAGTCCCTCCGCTCGGGC
ACCTCTTGTCGCCGAGCCGAAACCTGACTTTCTCTCCACATCATCCAGCGGCAGGCCTCCTCGAGTC
CATGCCCTGGCTGGCGGACCTGGTACAGTCCAGCGAGGGCTCCCTGGACGTGCTGCCCGTGAGTGTCTG
TGCGAGTTCCTGCTGCACGATGCTGTGGACGATGCTGCTTCCGGGGAGGAGGACGACGAGGGCGAGAGCA
AGGAGCAGAAGGCCAAGAAGCGGCAGAGGCAACAGAAGCAGCGGCAGCTGCTGGGCCGCTGCAGGACCT
GCTACTGGGCCGAAGGCTGATGAGCAGACACGTGTGAGGTGCTGGACTACTTCTTGGCGCCCTCGGC
TCCTCCAGGTGGCCTCCCGCTGCTGGCATGAAGGGTTTGTGCTGGTGTTCGAGGGCAGCCTGC
GGGACGGGGAGGAGAAGGAGCCCCCATGGAGGAGGATGTGGGGACACAGATGTCTGCAGGGCTATCA
GTGGTCTGTCGGGACCTGCCTCGCTGCTCTGTTTCGACAGCGTCAGGAGCACCAAGCCCTGGCCCTG
CAGCAGGCAATCCACATGGAGACTGATCCCCAGACCATCAGCGCTACCTGATCTACTTGTCCAGCACA
CGCCTGTGGAGGAGCAGGCCAGCACAGCGACCTGGCCCTGGACGTGGCCCGCTGGTCTGGAGCGCTC
CACCATCATGTCCACCTCTTCTCGAAGCTCTCCCGAGTGCCGCGTCGGACGCCGTGCTGAGCGCTCTG
TTGTCCATCTTCTCAGCTACGTGAGGCGCATGCGGCAGAGCAAGGAGGGCGAGGAGGTCTACAGCTGGT
CGGAGTCTCAGGACCAGGTCTTCTACGCTGGAGCAGCGGGGAGACAGCCACCATGCACATCCTCGTGGT
CCATGCCATGGTATCCTGCTGACGCTGGGCCCGCTCGAGCCGACGACGAGTTCAGGCGCTGCTG
GACATCTGGTTTCCGGAGGAGAAGCCACTGCCACCGCTTCTGCTGGACATCGGAGGAGCGCTGC
TGCTTCTGACTGGCTGAAGCTGCGCATGATCCGTTCTGAGGTGCTCCGCTGGTGGACGCCGCCCTGCA
GGACCTGGAGCCGACGAGCTGTGCTGTTCTGTCAGTCTGTTGGCATCCCCGTGTCCAGCATGAGCAAA
CTCCTCCAGTTTCTGGACCAGGCAAGTGGCCACGACCCCAAGCTCTGGAGCAGAACATCATGGACAAGA
ATTACATGGCCACCTGGTGGAGGTCCAGCATGAGCGCGCGCTCCGGAGGCCAGACTTTCCACTCCTT
GCTCACAGCCTCCTGCCGCCCCGCGAGACAGCACAGAGGCACCCAAACCAAGAGCAGCCAGAGCAG
CCCATAGGCCAGGGCCGATTCCGGTGGGACCCAGCTCCGGGTGCTGGGCCCTGAGGACGACCTGGCTG
GCATGTTCTCAGATTTTCCGCTCAGCCCGACCTCGGTGGCAGAGTCCAGTCCCCGCCCGTGGC
CCTCGCCCTGCAGCAGGCCCTGGCCAGGAGCTGGCCCGCTGCTCCAGGGCAGCCCCGAGGTGCCGGC
ATCACGGTGCGTGTCTGCAGGCCCTCGCCACCTGCTCAGCTCCCCACGCGCGTGGCTGGTATGT
CCATGCACCGTAGCCACTTCTGGCCTGCCCGCTGCTGCGCCAGCTCTGCCAGTACCAGCGCTGTGTGCC
ACAGGACACCGGCTTCTCCTCGCTCTTCTGAAGGTGCTCCTGCAGATGCTGCAGTGGTGGACAGCCCT
GGCGTGGAGGGCGGGCCCTGCGGGCACAGCTCAGGATGCTTGCCAGCCAGGCCTCAGCCGGGCGCAGGC
TCAGTGATGTGCGAGGGGGCTCCTGCGCTGGCCGAGGCCCTGGCCTTCCGTAGGACCTGGAGGTGGT
CAGCTCCACCGTCCGTGCCGTATCGCCACCTGAGGTCTGGGAGCAGTGCAGCGTGGAGCCGACCTG
ATCAGCAAAGTCTCCAGGGCTGATCGAGGTGAGGTCCCCCACCTGGAGGAGTCTGCTACTGCATTCT
TCTCTGCCACTGCGGATGCTGCCCTCCCGTTTCCAGCCTGTAAGCCGTTGTGGTGGTGAAGTCCCTGCT
GCTGCAGGAGGAGGAGCCCTGGCTGGGGGAAGCCGGGTGCGGACGGTGGCAGCCTGGAGGCCGTGCGG
CTGGGGCCCTCGTCAGGCCTCCTAGTGGACTGGTGGAAATGCTGGACCCGAGGTGGTCAAGAGTGGC
CCGACCTGCAGCTCAGGTGCTCTTCTCCCGAGGAAGGGCAAAGGTGAGGCCAGGTGCCCTCGTTCG
TCCCTACCTCCTGACCTCTTACGCAATCAGTCCAGCTGGCCACACTGCACAGTGCATCCGAGTCTG
CTGGGCAAGAGCCGGAACAGAGGTTTCGACCCCTGCTCTGGACTTCTCTGGCCTGCATCCATG

TTCCTCGCATCTGGCAGGGGCGGGACCAGCGCACCCCGCAGAAGCGGCGGGAGGAGCTGGTGCTGCGGGT
 CCAGGGCCCGGAGCTCATCAGCCTGGTGGAGCTGATCCTGGCCGAGGCGGAGACGCGGAGCCAGGACGGG
 GACACAGCCCGCTGCAGCCTCATCCAGGCCCCGGCTGCCCTGCTGCTCAGCTGCTGCTGTGGGGACGATG
 AGAGTGTGAGGAAGGTGACGGAGCACCTGTGAGGCTGCATCCAGCAGTGGGGAGACAGCGTGCTGGGCAG
 GCGCTGCCGAGACCTTCTCCTGCAGCTCTACCTACAGCGCCGGAGCTGCGGGTGCCCGTGCTGAGGTC
 CTACTGCACAGCGAAGGGGCTGCCAGCAGCAGCTGTGCAAGCTGGACGGAAGTCTCACCCTTCATCA
 CGCTCCTTGCGGACACCAGCGACTCCCGGGCGTTGGAGAACCAGGGGCGGATGCCAGCATGGCCTGCCG
 GAAGCTGGCGGTGGCGCACCCGCTGCTGCTGCTCAGGCACCTGCCCATGATCGCGGCGCTCCTGCACGGC
 CGCACCCACCTCAACTTCCAGGAGTTCGGCAGCAGAACCACCTGAGCTGCTTCTGCACGTGCTGGGCC
 TGCTGGAGCTGCTGCAGCCGACGTGTTCCGACGAGCAGCACCAGGGGGCGCTGTGGGACTGCCTTCTGTC
 CTTTCATCCGCTGCTGCTGAATTACAGGAAGTCTCCCGCCATCTGGCTGCCTTCATCAACAAGTTTGTG
 CAGTTCATCCATAAGTACATTACCTACAATGCCCCAGCAGCCATCTCCTTCTGCAGAAGCACGCCGACC
 CGCTCCACGACCTGCTTTCGACAACAGTGACCTGGTGTGCTGAAATCCCTCCTTGAGGGCTCAGCCT
 GCCCAGCAGGGACGACAGGACCGACCGAGGCTGGACGAAGAGGGCGAGGAGGAGAGCTCAGCCGGCTCC
 TTGCCCTGGTCAGCGTCTCCCTGTTACCCCTCTGACCGCGGCCGAGATGGCCCTACATGAAACGGC
 TTTCCCGGGGCCAAACGGTGGAGGATCTGCTGGAGGTTCTGAGTGACATAGACGAGATGTCCCGCGGGAG
 ACCCGAGATCCTGAGCTTCTTCTCGACCAACCTGCAGCGGCTGATGAGCTCGGCCGAGGAGTGTGCCGC
 AACCTCGCCTTACGCTGGCCCTGCGCTCCATGCAGAACAGCCCCAGCATTGCAGCCGCTTCTGCCCA
 CGTTCATGTACTGCCTGGGCAGCCAGGACTTTGAGGTGGTGCAGACGGCCCTCCGGAACCTGCCTGAGTA
 CGCTCTCCTGTGCAAGAGCAGCGGCTGTGCTGCTCCACCGGCCTTCTGGTGGGCATGTACGGCCAG
 ATGGACCCAGCGCGCAGATCTCCGAGGCCCTGAGGATCCTGCATATGGAGGCCGTGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

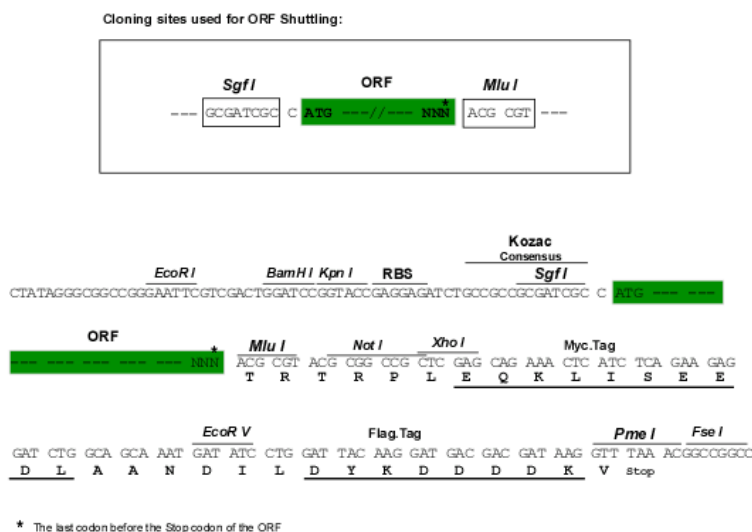
Protein Sequence: >RC217456 representing NM_001080453
 Red=Cloning site Green=Tags(s)

MNRAKPTTVRRPSAAAKPSGHPGDFIALGSKGQANESKTASTLLKPAPSGLPSEKRDAASSASA
 LTGLTKRPKLSSTPPLSALGRLAEAAVAEKRAISPSIKEPSVVPPIEVLPVLLDEIEAAELEGNDRIEG
 VLCGAVKQLKVTRAKPDSTLYLSMYLAKIKPNIFATEGVIEALCSLLRRDASINFKAKGNSLVSLACN
 LLMAAYEEDENWPEIFVKVYIEDSLGERIWDSPHCKTFVDNIQTAFNTRMPPRSLLQGEAGRVAGDLG
 AGSSPHPSLTEEEDSQTELLIAEEKLSPEQEGQLMPRYEELAESVEEYVLDMLRDQLNRRQPIDNVSRL
 LRLLTSTCGYKEVRLLAQKLEMWLQNPKLTRPAQDLMSVCMNCNTHGSEDMDVISHLIKIRLKPVKLL
 NHFMLCIRELLSAHKDNLGTTIKLVIFNELSSARNPNMQVLYTALQHSSELAPKFLAMVFQDLLTNKDD
 YLRASRALLREIKQTKHEINFQAFCLGLMQRKEPQYLEMEFKERFVVHITDVLAVSMMLGITAQVKEA
 GIAWDKGEKRNLEVLRSFQNIQAAIQRDVWWLHTVVPSISKLPKDYVHCLHKVLFTEQPETYKWDNW
 PPESDRNFFLRCLCEVPILEDTLMRILVIGLSRELPLGPADAMELADHLVKRAAAVQADDVEVLKVGRTQ
 LIDAVNLCTYHHPENIQLPPGYQPPNLAISTLYWKAWPLLLVAAFNPENIGLAWEYPTLKMMLMEMV
 MTNNYSYPPCTLTDEETRTEMLNRELQTAQREKQEILAFEGHLAAASTKQITITESSLLLSQLTSLDPQG
 PPRRPPPHILDQVKSLSLRLGHLCSRNPDLFLHIQQRASSQSMPWLADLVQSSSEGLDVLVPQCL
 CEFLLDHDAVDDAASGEEDDEGESKEQKAKKRQRQKQRLGRLQDLLGPKADEQTTCEVLDYFLRRLG
 SSQVASRVLAMKGLSLVSEGLRDGEEKEPPMEEDVGDVDVLQGYQWLLRDLPLPLFDSVRSTTALAL
 QQAIHMETDPQTISAYLIYLSQHTPVEEQAHSDALDVARLVVERSTIMSHLFSKLSPSAASDAVLSAL
 LSIFSRVRRMRQSKEGEEVYSWSESQDQVFLRWSSGETATMHILVVHAMVILLTLGPPRADDSEFQALL
 DIWFPEEKPLPTAFLVDTSEEALLPDWLKLRMIRSEVLRLVDAALQDLEPQQLLQVQSGFIPVSSMSK
 LLQFLDQAVADHPQTLQEQNIMDKNYMAHLVEVQHERGASGGQTFHSLLTASLPPRRDSTEAPKPKSSPEQ
 PIGQGRIRVGTQLRVLGPEDDLAGMFLQIFPLSPDPRWQSSSPRPVALALQALQELARVVQGSPEVPG
 ITVRVLQALATLLSSPHGGALVMSMHRSHFLACPLLRQLCQYQRCVPQDTGFSSFLKVLQLQMLQWLDSP
 GVEGGPLRAQLRLASQASAGRRLSDVRGGLRLAEALAFRQDLEVVSSTVRAVIATLRSGEQCSVEPDL
 ISKVLQGLIEVRSPHLEELLTAFFSATADAASPFACKPVVVVSSLLQEEEPLAGGKPGADGGSLEAVR
 LGPSSGLLDVWLEMLDPEVVSSCPDLQLRLLFSRRKGKGAQVPSFRPYLLTLFTHQSSWPTLHQCIRVL
 LGKSREQRFDPSASLDFLWACIHPRIWQGRDQRTQKRREELVLRVQGPGLISLVELILAEATRSQDG
 DTAACSLIQARLPLLLSCCGDDESVRKVTEHLSGCIQQWGDVSLGRRCRDLLQLYLQRPGLRVPVPEV
 LLHSEGAASSSVCKLDGLIHRFITLLADTSDSRALENRGADASMCRKLAVAHPLLLLRHLPMAIALLHG
 RTHLNFQEFRRQNHLSCLHVLGLLELLQPHVFRSEHQGALWDCLLSFIRLLLNRYKSSRHAAFINKFV
 QFIHKYITYNAPAAISFLQKHADPLHDLSDNSDLVMLKSLLAGLSLPSRDDRTDRGLDEEGEESSAGS
 LPLVSVSLFTPLTAAEMAPYMKRLSRGQTVEDLLEVLSDIDEMSRRRPEILSFFSTNLQRLMSSAECCR
 NLAFLSALRSMQNSPSIAAFLPTFMYCLGSQDFEVVQTALRNLPYALLCQEAHAVLLHRAFLVGMYGQ
 MDPSAQISEALRIHMEAVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001080453

ORF Size: 6570 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001080453.3](#)

RefSeq Size: 7000 bp

RefSeq ORF: 6573 bp

Locus ID: 26173

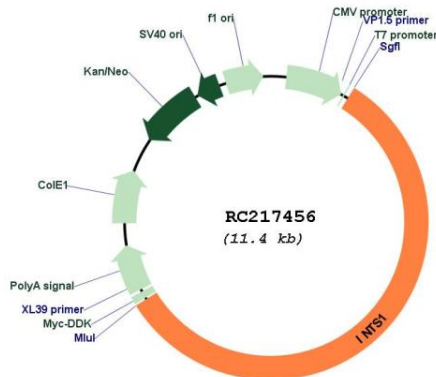
UniProt ID: Q8N201

Cytogenetics: 7p22.3

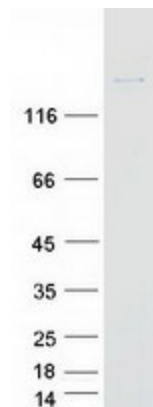
MW: 244.7 kDa

Gene Summary: INTS1 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 RC217456



Coomassie blue staining of purified INTS1 protein (Cat# [TP317456]). The protein was produced from HEK293T cells transfected with INTS1 cDNA clone (Cat# RC217456) using MegaTran 2.0 (Cat# [TT210002]).