

Product datasheet for **RC224503**

Fibronectin (FN1) (NM_212474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibronectin (FN1) (NM_212474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fibronectin
Synonyms:	CIG; ED-B; FINC; FN; FNZ; GFND; GFND2; LETS; MSF; SMDCF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224503 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTAGGGTCCGGGCGCGGCTGCTGCTGCTGGCCGTCTGTGCCTGGGACAGCGGTGCCCTCCA
CGGGAGCCTCGAAGAGCAAGAGGCAGGCTCAGCAATGGTTAGCCCCAGTCCCCGGTGGCTGTCAGTCA
AAGCAAGCCCGTTGTTATGACAATGGAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTA
GGCAATGCGTTGGTTTGTACTTGTATGGAGGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTG
AAGAGACTTGCTTGGACAAGTACACTGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCCTAAAGA
CTCCATGATCTGGGACTGTACCTGCATCGGGGCTGGGCGAGGGAGAATAAGCTGTACCATCGAAACCGC
TGCCATGAAGGGGTGAGTCTCAAGATTGGTGACACCTGGAGGAGACCACATGAGACTGGTGGTTACA
TGTTAGAGTGTGTGTCTTGGTAATGGAAGGAGAATGGACCTGCAAGCCCATAGCTGAGAAGTGT
TGATCATGCTGCTGGGACTTCTATGTGGTCGGAGAAACGTGGGAGAAGCCCTACCAAGGCTGGATGATG
GTAGATTGTAAGTGCCTGGGAGAAGGCAGCGGACGCATCACTTGCCTTCTAGAAATAGATGCAACGATC
AGGACACAAGGACATCTATAGAATTGGAGACACCTGGAGCAAGAAGGATAATCGAGGAAACCTGCTCCA
GTGCATCTGCACAGGCAACGGCCGAGGAGAGTGAAGTGTGAGAGGCACACCTCTGTGCAGACCACATCG
AGCGGATCTGGCCCTTACCGATGTTCTGTCAGCTGTTTACCAACCGCAGCCTCACCCAGCCTCCTC
CCTATGGCACTGTGTACAGACAGTGGTGTGGTCTACTCTGTGGGATGCAAGTGGCTGAAGACACAAGG
AAATAAGCAATGCTTTGCACGTGCCTGGGCAACGGAGTCAGCTGCCAAGAGACAGCTGTAAACCCAGACT
TACGGTGGCAACTCAAATGGAGAGCCATGTGTCTTACCATTACCTACAATGGCAGGACGTTCTACTCCT
GCACCACAGAAGGGCGACAGGACGGACATCTTGGTGCAGCACAACTTCAATTATGAGCAGGACCAGAA
ATACTCTTCTGCACAGACCACACTGTTTTGGTTCAGACTCGAGGAGGAAATCCAATGGTGCCTTGTGC
CACTTCCCCTTCTATACAACAACCACAATTACACTGATTGCACTTCTGAGGGCAGAAGAGACAACATGA
AGTGGTGTGGGACCACAGAACTATGATGCCGACCAGAAGTTGGGTTCTGCCCATGGCTGCCACGA
GGAAATCTGCACAACCAATGAAGGGTCATGTACCGCATTGGAGATCAGTGGGATAAGCAGCATGACATG



[View online »](#)

GGTCACATGATGAGGTGCACGTGTGTTGGGAATGGTCGTGGGGAATGGACATGCATTGCCTACTCGCAGC
TTCGAGATCAGTGCATTGTTGATGACATCACTTACAATGTGAACGACACATTCCACAAGCGTCATGAAGA
GGGGCACATGCTGAACGTACATGCTTCGGTCAGGGTCGGGGCAGGTGGAAGTGTGATCCCGTCGACCAA
TGCCAGGATTGAGAGCTGGGACGTTTTATCAAATTGGAGATTTCATGGGAGAAGTATGTGCATGGTGTCA
GATACCACTGCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTTACAGACCTATCCAAG
CTCAAGTGGTCTGTGCGAAGTATTTATCACTGAGACTCCGAGTCAGCCCACTCCCAACCCATCCAGTGG
AATGCACCACAGCCATCTCACATTTCCAAGTACATTCTCAGGTGGAGACCTAAAAATTCGTAGGCCGTT
GGAAGGAAGCTACCATACCAAGGCCACTTAACTCCTACCCATCAAAGGCCTGAAGCCTGGTGTGGTATA
CGAGGGCCAGCTCATCAGCATCCAGCAGTACGGCCACCAAGAAGTGAATCGCTTTGACTTCACCACCACC
AGCACCAGCACACCTGTGACCAGCAACACCGTGACAGGAGAGACGACTCCCTTTTCTCCTTGTGGCCA
CTTCTGAATCTGTGACCGAAATCACAGCCAGTAGCTTTGTGGTCTCCTGGGTCTCAGTTCGACACCGT
GTGCGGATTCCGGGTGGAATATGAGCTGAGTGAGGAGGGAGATGAGCCACAGTACCTGGATCTTCCAAGC
ACAGCCACTTCTGTGAACATCCCTGACCTGCTTCTGGCCGAAAATACATTGTAATGTCTATCAGATAT
CTGAGGATGGGGAGCAGAGTTTGATCCTGTCTACTTCACAAACAACAGCGCTGATGCCCTCCTGACCC
GACTGTGGACCAAGTTGATGACACCTCAATTGTTGTTGCTGGAGCAGACCCAGGCTCCCATCACAGGG
TACAGAATAGTCTATTCGCCATCAGTAGAAGGTAGCAGCACAGAACTCAACCTTCTGAAACTGCAAACT
CCGTACCCCTCAGTGAATGCAACCTGGTGTTCAGTATAACATCACTATCTATGCTGTGGAAGAAAAATCA
AGAAAGTACACCTGTTGTCAATCAACAAGAAACCACTGGCAGCCACGCTCAGATACAGTGCCCTCTCCC
AGGGACCTGCAGTTTGTGGAAGTGACAGACGTGAAGGTACCATCATGTGGACACCGCTGAGAGTGCAG
TGACCGGCTACCGTGTGGATGTGATCCCGTCAACCTGCCTGGCAGCAGCGGCAGAGGCTGCCATCAG
CAGGAACACCTTTGCAGAAGTACCGGGCTGTCCCTGGGGTCACTATTACTTCAAAGTCTTTCAGTG
AGCCATGGGAGGGAGAGCAAGCCTCTGACTGCTCAACAGACAACCAAACTGGATGCTCCCACTAACCTCC
AGTTTGTCAATGAACTGATTCTACTGTCTGGTGAGATGGACTCCACCTCGGGCCAGATAACAGGATA
CCGCTGACCGTGGGCCTTACCCGAAGAGGCCAGCCAGGCAGTACAATGTGGGTCCCTCTGTCTCCAAG
TACCCCTGAGGAATCTGCAGCCTGCATCTGAGTACACCGTATCCCTCGTGGCCATAAAGGGCAACCAAG
AGAGCCCCAAAGCCACTGGAGTCTTTACCACACTGCAGCCTGGGAGCTCTATTCCACCTTACAACACCGA
GGTGAATGAGACCACTTGTGATCAGTGGACGCTGCTCCAAGAATTGGTTTTAAGCTGGGTGTACGA
CCAAGCCAGGGAGGAGAGGCACACGAGAAGTGACTTCAGACTCAGGAAGCATCGTTGTGTCGGCTTGA
CTCCAGGAGTGAATACGTCTACACCATCCAAGTCTGAGAGATGGACAGGAAAGAGATGCGCAATTGT
AAACAAAGTGGTGAACCATTTGTCTCCACCAACAACTTGATCTGGAGGCAACCTGACACTGGAGTG
CTCAGAGTCTCCTGGGAGAGGAGCACCACCCAGACATTACTGGTTATAGAATTACCACAACCCCTACAA
ACGCCCCAGAGGAAATCTTTGGAAGAAGTGGTCCATGCTGATCAGAGCTCCTGCACTTTTGATAACCT
GAGTCCCGGCTGGAGTACAATGTCAAGTGTTCACCTGTCAAGGATGACAAGGAAAGTGTCCCTATCTCT
GATACCATCATCCAGCTGTTTCTCCTCCCACTGACCTGCGATTACCAACATTGGTCCAGACACCATGC
GTGTCACCTGGGTCCACCCCATCCATTGATTTAACCACCTTCTGGTGGCTTACTCACCTGTGAAAAA
TGAGGAAGATGTTGAGAGTTGTCAATTTCTCCTTCAGACAAATGCAGTGGTCTTAACAAATCTCTGCCT
GGTACAGAATATGTAGTGTCTCCAGTGTCTACGAACAACATGAGAGCACACCTCTTAGAGGAAGAC
AGAAAACAGGTCTTGATTCCTCACTGGCATTGACTTTTCTGATATTACTGCCAACTCTTTACTGTGCA
CTGGATTGCTCCTCGAGCCACCATCACTGGCTACAGGATCCGCCATCATCCCGAGCACTCAGTGGGAGA
CCTCGAGAAGATCGGGTGCCCACTCTCGGAATCCATACCCCTACCAACCTCACTCCAGGCACAGAGT
ATGTGGTCAGCATCGTTGCTCTTAATGGCAGAGAGGAAAGTCCCTTATTGATTGGCCAACATCAACAGT
TTCTGATGTTCCGAGGGACCTGGAAGTTGTTGCTGCGACCCCAACAGCCTACTGATCAGCTGGGATGCT
CCTGCTGTACAGTGAGATATTACAGGATCACTTACGGAGAAACAGGAGGAAATAGCCCTGTCCAGGAGT
TCACTGTGCTGGGAGCAAGTCTACAGTACCATCAGCGGCTTAAACCTGGAGTTGATTATACCATCAC
TGTGTATGCTGTCACTGGCCGTGGAGACAGCCCGCAAGCAGCAAGCCAATTTCCATTAAATACCGAACA
GAAATTGACAAACCATCCAGATGCAAGTGACCGATGTTCAAGGACACAGCATTAGTGTCAAGTGGCTGC
CTTCAAGTTCCCCTGTTACTGGTTACAGAGTAACCAACCTCCCAAAATGGACCAGGACCAACAAAAAC
TAAAACTGCAGGTCCAGATCAAACAGAAATGACTATTGAAGGCTTGCAGCCACAGTGGAGTATGTGGTT
AGTGTCTATGCTCAGAATCCAAGCGGAGAGAGTCAACCTCTGGTTCAGACTGCAGTAACCACTATTCCTG
CACCACCTGACCTGAAGTTCACTCAGGTACACCCACAAGCCTGAGCGCCAGTGGACACCAACCAATGT
TCAGTCACTGGATATCGAGTGGGGTGACCCCAAGGAGAAGACCGGACCAATGAAGAAATCAACCTT
GCTCCTGACAGCTCATCCGTGGTTGTATCAGGACTTATGGTGGCCACCAATATGAAGTGAAGTGTCTATG

CTCTTAAGGACACTTTGACAAGCAGACCAGCTCAGGGTGTGTCACCACTCTGGAGAATGTCAGCCACC
 AAGAAGGGCTCGTGTGACAGATGCTACTGAGACCACCATCACCATTAGCTGGAGAACCAAGACTGAGACG
 ATCACTGGCTTCCAAGTTGATGCCGTTCCAGCCAATGGCCAGACTCCAATCCAGAGAACCATCAAGCCAG
 ATGTCAGAAGCTACACCATCACAGGTTTACAACCAGGCACTGACTACAAGATCTACCTGTACACCTTGAA
 TGACAATGCTCGGAGCTCCCTGTGGTCATCGACGCCTCCACTGCCATTGATGCACCATCCAACCTGCGT
 TTCCTGGCCACCACACCAATTCCCTGTGGTATCATGGCAGCCGCCACGTGCCAGGATTACCGGCTACA
 TCATCAAGTATGAGAAGCCTGGGTCTCCTCCCAGAGAAGTGGTCCCTCGGCCCCGCCCTGGTGTACAGA
 GGCTACTATTACTGGCCTGGAACCGGGAACCGAATATACAATTTATGTCATTGCCCTGAAGAATAATCAG
 AAGAGCGAGCCCCCTGATTGGAAGGAAAAAGACAGGACAAGAAGCTCTCTCTCAGACAACCATCTCATGGG
 CCCCATTCCAGGACACTTCTGAGTACATCATTTTCATGTCATCCTGTTGGCACTGATGAAGAACCCTTACA
 GTTCAGGGTTCCTGGAATTCTACCACTGCCACTCTGACAGGCCTCACCAGAGGTGCCACCTACAACATC
 ATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGTTTCGGAAGAGGTTGTTACCGTGGGCAACTCTG
 TCAACGAAGGCTTGAACCAACCTACGGATGACTCGTGCTTTGACCCCTACACAGTTTCCATTATGCCGT
 TGGAGATGAGTGGGAACGAATGTCTGAATCAGGCTTTAACTGTTGTGCCAGTGCTTAGGCTTTGGAAGT
 GGTCATTTAGATGTGATTTCATCTAGATGGTGCATGACAATGGTGTGAAGTACAAGATTGGAGAGAAGT
 GGGACCGTCAGGGAGAAAATGGCCAGATGATGAGCTGCACATGTCTTGGGAACGGAAGGAGAATTCAA
 GTGTGACCCTCATGAGGCAACGTGTTATGATGATGGGAAGACATACCACGTAGGAGAACAGTGGCAGAAG
 GAATATCTCGGTGCCATTTGCTCCTGCACATGCTTTGGAGGCCAGCGGGCTGGCGCTGTGACAACTGCC
 GCAGACCTGGGGGTGAACCCAGTCCCGAAGGCACTACTGGCCAGTCTACAACAGTATTCTCAGAGATA
 CCATCAGAGAACAAACACTAATGTTAATTGCCAATTGAGTGCTTCATGCCTTTAGATGTACAGGCTGAC
 AGAGAAGATTCCCGAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224503 protein sequence

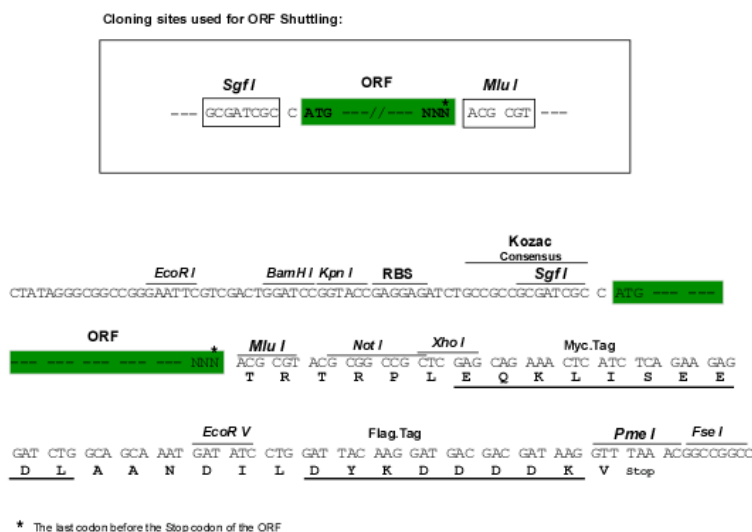
Red=Cloning site Green=Tags(s)

MLRGPGPGLLLLAVLCLGTAVPSTGASKSKRQAQQMVQPQSPVAVSQSKPGCYDNGKHQYQINQQWERTYL
 GNALVCTCYGSGRGFNCEKPEAEETCFDKYTGNTRYRGDTYERPKDSMIWDCTCIGAGRGRISCTIANR
 CHEGGQSYKIGDTRRRPHETGGYMLECVCLGNGKGEWTKPIAEKCFDHAAGTSYVVGETWEKPYQWMM
 VDCTCLGEGSGRITCTSRNRCNDQDTRTSYRIGDTWSKKDNRGNLLQCICTGNRGGEWKCEHRTSVQTTT
 SGSGPFTDVRAAVYQPQPHQPQPPYGHCVTD SGVVYSVGMQWLKTQGNKQMLCTCLGNGVSCQETAVTQT
 YGNSNGEPCVLPFTYNGRTFYSCCTTEGRQDGHLCWSTTSNYEQDQKYSFCTDHTVLVQTRGNSNGALC
 HFPFLYNNHNYTDCTSEGRDNMKWCGTTQNYDADQKFGFCPMAAHEEICTTNEGVMYRIGDQWDKQHDM
 GHMMRCTCVGNGRGEWTCIAYSQLRDQCI VDDITYNVNDTFHKRHEEGHMLNCTCFGQGRGRWKCDPVDQ
 CQDSETGTFYQIGDSWEKYVHGVRVYQCYCYGRGIGEWHCQPLQTYPSSSGPVEVFITETPSQPNSHPIQW
 NAPQPSHISKYILRWRPKNSVGRWKEATIPGHLNSYTIKGLKPGVVYEGQLISIQYGHQEVTRDFTTT
 STSTPVTSTNTVTGETTFFSPLVATSESVTEITASSFVSWVSASDTVSGFRVEYELSEEGDEPQYLDLPS
 TATSVNIPDLLPGRKYIVNVYQISEDGEQSLILSTSQTAPDAPPDPTVDQVDDTSIVVRWSRPQAPITG
 YRIVYSPSVEGSSTELNLPETANSVTLSDLQPGVQYNITIYAVEENQESTPVVIQETTGTPRSDTVSPSP
 RDLQFVEVTDVKVTIMWTPPESAVTGYRVDVIPVNLPGEHGQRLPISRNTFAEVTGLSPGVYTFYKFAV
 SHGRESKPLTAQQTTLKLDAPTNLQFVNEDSTVLVRWTPPRAQITGYRLTVGLTRRGQPRQYVNGPSVSK
 YPLRNLQPASEYTVSLVAIKGNQESPKATGVFTTLQPGSSIPPYNTEVTETTIVITWTPAPRIGFKLGVR
 PSQGEAPREVTSDSGSIVVSGLTPGVEYVYTIQVLRDQGERDAPIVNKVVTPLSPPTNLHLEANPDTGV
 LTVSWERSTTDPITGYRITTTPTNGQQGNSLEE VVHADQSSCTFDNLSPGLEYNVSVYTVKDDKESVPI
 DTIIPAVPPPTDLRFTNIGPDMRVTWAPPPSIDLTNFLVRYSPVKNEEDVAELSI SPSDNAVVLTNLLP
 GTEYVVS VSSVYEQHESTPLRGRQKTGLDSPTGIDFSDITANSFTVHWIAPRATITGYRIRHHPHFSGR
 PREDRVPHSRNSITLTNLTPGTEYVVSIVALNGREESPLLIGQQSTVSDVPRDLEVVAATPTSLLSWDA
 PAVTVRYRITYGETGGNSPVQEFTVPGSKSTATISGLKPGVDYITVYAVTGRGDSPASSKPI SINYRT
 EIDKPSQM QVTDVQDNSISVKWLPSSSPVTGYRVTTTPKNGPGPTKTKTAGPDQTEMTIEGLQPTVEYVV
 SVYAQNPSGESQPLVQTAVTTIPAPTDLKFQVTP TSLSAQWTPPNVQLTGYRVRVTPKEKTGPMKEINL
 APDSSSVVSGLMVATKYEVS VYALKDTLTSRPAQGVVTTLENVSPRRARVTDATETTITISWRTKTET
 ITGFQVDAVPANGQTPIQRTIKPDVRSYITITGLQPGTDYKIYLYTLNDNARSSPVVIDASTAIDAPSNLR
 FLATTPNSLLVSWQPPRARITGYIIKYEKPGSPPREVVPRPRPGVTEATITGLEPGTEYTIYVIALKNNQ
 KSEPLIGRKKTGQEALSQTTISWAPFQDTSEYIISCHPVGTDDEEPLQFRVPGTSTSATLTGLTRGATYNI
 IVEALKDQQRHKVREEVTVGNSVNEGLNQPTDDSCFDPYTVSHYAVGDEWERMSES SGFKLLCQCLGFGS
 GHFRCDSSRWCHDNGVNYKIGEKWDRQGENGQMMSC TCLGNGKGEFKCDPHEATCYDDGKTYHVGEQWQK
 EYLGAI CSCTCFGGQRGWRCDNCRPPGGEPSPEGTTGQSYNQYSQRYHQRTNTNVNCPICFMPLDVQAD
 REDSRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_212474

ORF Size: 6528 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_212474.3](#)

RefSeq Size: 7912 bp

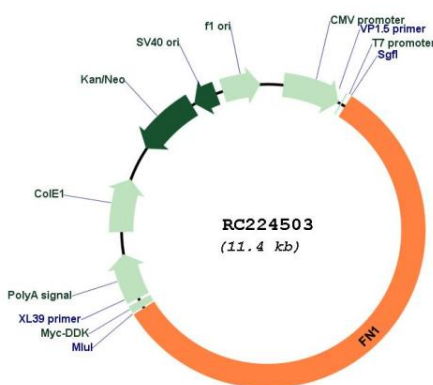
RefSeq ORF: 6531 bp

Locus ID: 2335

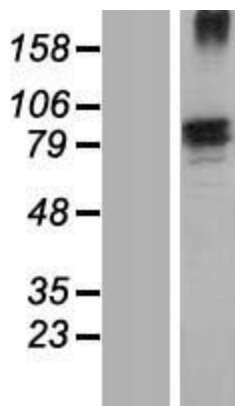
UniProt ID: [P02751](#)

Cytogenetics:	2q35
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer
MW:	239.6 kDa
Gene Summary:	This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. The encoded preproprotein is proteolytically processed to generate the mature protein. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing. The full-length nature of some variants has not been determined. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC224503



Western blot validation of overexpression lysate (Cat# [LY403946]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224503 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).