

Product datasheet for **RG210620**

Strumpellin (WASHC5) (NM_014846) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Strumpellin (WASHC5) (NM_014846) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Strumpellin
Synonyms:	KIAA0196; RTSC; RTSC1; SPG8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210620 representing NM_014846 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGACTTTCTAGCCGAGAACCACTCTGTGGCCAAGCAATCCTAAGGATTGTTTCCTGTGTAATG
CCATCATTGCTGAACTTTGGAGCTCTCTGAGTTTATTCCTGCTGTGTTCAAGTTAAAGACAGAGCTGA
TCAACAGAAATATGGAGATATCATATTTGATTTCACTATTTTAAGGGTCCAGAATTATGGGAAAGCAAA
CTGGATGCTAAGCCAGAGCTACAGGATTTAGATGAAGAATTCGTGAAAACAACATAGAAATTTGACCA
GATTTTATTTAGCATTTCAAAGGTACATAAATATATTGTAGACTTAAACAGATATCTAGATGATCTCAA
TGAAGGGGTTTATATTCAGCAAACCTTAGAAACTGTGCTTCTCAATGAAGATGGAAAACAACCTTCTATGT
GAAGCACTGTACTTATATGGAGTTATGCTACTGGTCATTGACCAAAAGATTGAAGGAGAAGTCAGAGAGA
GGATGCTGGTTTCTTACTACCGATACAGTGCTGCTCGATCTTCTGCTGATTCAAATATGGACGATATTTG
TAAGCTGCTTCGAAGTACAGGTTATTCTAGCCAACCAAGGTGCCAAAAGACCATCCAATATCCCGAGAGC
TATTTCCAGAGAGTGCCTATCAACGAATCCTTCATCAGTATGGTCATTGGTCGACTGAGATCTGATGATA
TTTACAACCAGGTCTCAGCGTATCCTTTGCCGGAGCATCGCAGCACAGCCCTGGCAAACCAAGCTGCCAT
GCTGTACGTGATTCTCTACTTTGAGCCTTCCATCCTTCACACCCATCAAGCAAAAATGAGAGAGATAGTG
GATAAATACTTTCCAGATAATTGGGTAATTAGTATTTACATGGGGATCACAGTTAATCTAGTAGATGCTT
GGGAACCTTACAAAGCTGCAAAAACCTGCTTTAAATAATACCCTGGACCTTTCAAATGTGAGAGAACAGGC
AAGCAGATATGCTACTGTGCTGAGTGAAGAGTGCATGCTCAAGTGCAGCAATTTCTAAAAGAAGGTTATTTA
AGGGAGGAGATGGTTCTGGACAATATCCCAAAGCTTCTGAACTGCCTGAGAGACTGCAATGTTGCCATCC
GATGGCTGATGCTTCATACAGCAGACTCAGCCTGTGACCCAAACAACAACGCCTTCGTCAAATCAAGGA
CCGATTTCAACAGACTCTCGGTACAATCCCAGGATCCTCTCCAGCTGCTGTTAGATACTGCACAATTT
GAGTTTATACTCAAAGAGATGTTCAAGCAAATGCTTTCAAGAAAGCAAACCAAATGGGAGCATTACAAGA
AAGAGGGTTCGGAGCGGATGACTGAGCTTGCTGATGTCTTTTCAGGAGTGAACCCCTAACCCAGAGTGGA
GAAAAATGAAAACCTTCAAGCTTGGTTCAGAGAGATCTCAAAACAAATATTGTCTTTAAATTATGATGAT



[View online »](#)

TCTACTGCTGCGGGCAGAAAACTGTACAACCTGATACAAGCTTTGGAAGAGGTTCAAGAATTCACCAGT
TGGAAATCCAATCTGCAAGTATGTCAGTTTCTTGCCGATACTCGAAAGTTTCTTCATCAAATGATCAGAAC
CATTAACATTAAGAGGAGGTTCTGATCACAATGCAGATCGTTGGGGACCTTTCTTTGCTTGGCAGTTG
ATTGACAGTTTCACATCCATCATGCAAGAAAGCATAAGGGTAAATCCATCCATGGTTACTAACTCAGAG
CTACCTTCCTAAAGCTTGCCCTCGATCTGCCCTTCTTCGTATTAATCAGGCAATAGCCCCGA
CCTGCTCAGCGTGCACAGTACTATTCTGGAGAGTTGGTATCCTATGTGAGAAAAGTTTGCAGATCATC
CCAGAAAGCATGTTTACATCTCTTCTAAAGATCATAAAGCTTCAGACCCACGACATTATTGAAGTGCCTA
CCGCCTGGACAAAGACAAGCTGAGGGACTATGCTCAGCTAGGCCACGATACGAGGTTGCCAAGCTTAC
TCATGCTATTTCCATTTTACTGAAGGCATCTTAATGATGAAAACGACTTTGGTTGGCATCATCAAGGTG
GATCCAAAGCAGTTGCTGGAAGATGGAATAAGGAAAGAGCTTGGAAGCGCTTGCCCTTGCCCTGCATA
GGGGACTGATATTCAACCCTCGAGCCAAGCCAAGTGAATTGATGCCCAAGCTGAAAGAGTTGGGAGCGAC
CATGGATGGATTCCATCGTTCTTTGAATACATACAGGACTATGTCAACATTTATGGTCTGAAGATTGG
CAGGAAGAAGTATCTCGTATCATAAATTACAACGTGGAGCAAGAGTGAATAACTTTCTAAGAACGAAGA
TTCAAGATTGGCAAAGCATGTACCAGTCCACTCATATTCCAATACCCAAGTTTACCCCTGTGGATGAGTC
TGTAACGTTTATTGGTCGACTCTGCAGAGAAATCTGCGGATCACAGACCCAAAAATGACATGTCACATA
GACCAGCTGAACACTTGGTATGATATGAAAACCTATCAGGAAGTGACCAGCAGCCGCTCTTCTCAGAAA
TCCAGACCACCTTGGAACCTTTGGTCTAAATGGCTTAGACAGGCTTCTGTGCTTATGATTGTAAAAGA
GTTACAGAATTTCTCAGTATGTTTCAGAAAATTATCCTGAGAGACAGAACTGTTCCAGGACACTTTAAAA
ACCCTCATGAATGCTGTCAGTCCCCTAAAAAGTATTGTCGCAATTCAAATAAAATTTATTTTCCGCCA
TTGCCAAAACACAGAAGATTTGGACTGCGTATCTCGAGGCTATAATGAAGGTTGGGCAGATGCAGATTCT
GAGACAACAGATTGCCAATGAATTAAATTATTCTTGTGCGTTTGATTCTAAACATCTGGCAGCTGCTCTG
GAGAATCTCAATAAGGCTCTCTAGCAGACATTGAAGCCCACTATCAGGACCCCTTCACTTCCTTACCCCA
AAGAAGATAACACACTTTTATATGAAATCACAGCCTATCTGGAGGCAGCTGGCATTACAAACCACTGAA
TAAGATATACATAACAACAAAGCGCTTACCCTATTTTCCAATTGTAAACTTTCTATTTTGTATCGTCTAG
TTGCCAAAACCTCAATACAACAAAAATCTGGAATGGTCTGCCGAAAACCGACCGACCCGTTGATTGGC
CACCACCTGTCTGGGACTGCTCACTCTGCTGAAGCAGTTCCATTCCCGGTACACCGAGCAGTTCTGGC
GCTGATTGGCCAGTTTATCTGCTCCACGGTGGAGCAGTGTACAAGCCAGAAGATACCTGAAATTCCTGCA
GATGTTGTGGGTGCCCTTCTGTTCTGGAGGATTATGTTCCGTACACAAAGCTACCCAGGAGGGTTGCTG
AAGCACATGTGCCTAATTTCAATTTTGTAGAGTTCAGAACAGTGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

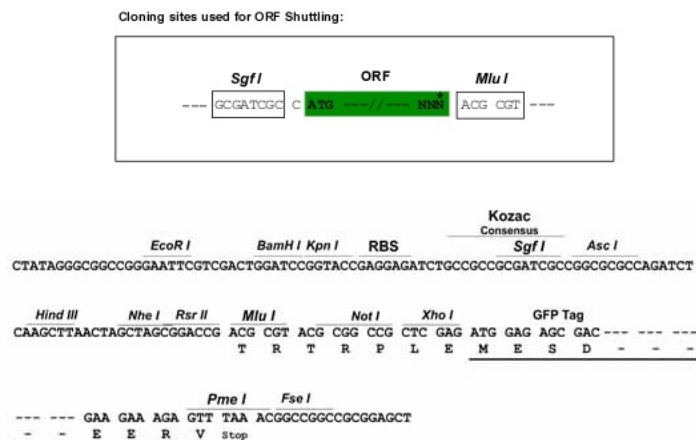
Protein Sequence: >RG210620 representing NM_014846
Red=Cloning site Green=Tags(s)

MLDFLAENNLCGQAILRIVSCGNATIAELLRLSEFIPAVFRLKDRADQQKYGDIIFDFSYFKGPPELWESK
LDAKPELQDLDEEFRENNIEIVTRFYLAQSVHKYIVDLNRYLDDLNEGVIYQQTLETVLLNEDGKQLLCE
EALYLYGVMLLVIDQKIEGEVRERMLVSYRYSAARSSADSNMDDICKLLRSTGYSSQPGAKRPSNYPES
YFQRPINESFISMVIGRLRSDDIYNQVSAYPLPEHRSTALANQAAMLVYILYFEPSILHTHQAKMREIV
DKYFPDNWVVISIYMGITVNLVDAWEPYKAAKTALNNTLDLSNVREQASRYATVSERVHAQVQOFLKEGYL
REEMVLDNIPKLLNCLRDCNVAIRWMLMLHTADSACDPNNKRLRQIKDQILTDSRYNPRILFQLLLDTAQF
EFILKEMFKQMLSEKQTKWEHYKKEGSERMTELADVSGVKPLTRVEKNENLQAWFREISKQILSLNYDD
STAAGRKTQVLQALEEVQEFHQLESNLQVCQFLADTRKFLHQMIRINTKEEVLITMQIVGDL SFAWQL
IDSFTSIMQESIRVNPSMVTKL RATFLKLASALDPLLRINQANSPDLLSVSQYYSGELVSYVRKVLQII
PESMFTSLKKI IKLQTHDIEVPTRLDKDKLRDYAQLGPRYEVAKLTHAISIFTEGILMMKTTLVGIIKV
DPKQILLEDGIRKELVKRVAFALHRGLIFNPRAKPSELMPKLKELGATMDGFHRSFEYIQDYVNIYGLKIW
QEEVSRRIINYNVEQECNNFLRTKIQDWQSMYQSTHIPIPKFTPVDESVTFIGRLCREILRITDPKMTCHI
DQLNTWYDMKTHQEVTSRSLFSEIQTTLGTGFLNGLDRLLCFMIVKELQNFLSMFQKIILRDRTVQDTLK
TLMNAVSP LKSIVANSNKIYFSAIAKTQKIWTAYLEAIMKVGQMQLRQQIANELNYSRCRFD SKHLAAAL
ENLNKALLADIEAHYQDPSLPYPKEDNTLLTITAYLEAAGIHNPLNKIYITT KRLPYFPPIVNF LFLIAQ
LPKLQYNKNLGMVCRKPTDPVDWPLVLGLLTLLTKQFHSRYTEQFLALIGQFICSTVEQCTSQKIPEIPA
DVGVALFLLEDVYRYTKLPRRVEAHVNPFI LDFEFTVLY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

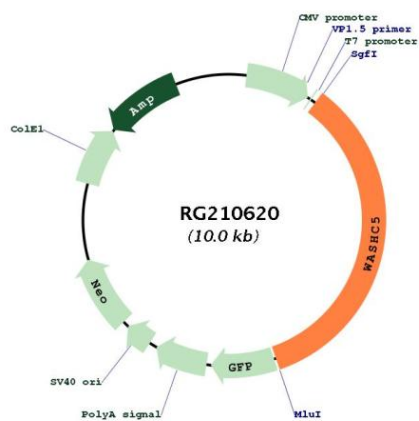


ACCN: NM_014846

ORF Size: 3477 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_014846.4
RefSeq Size:	4173 bp
RefSeq ORF:	3480 bp
Locus ID:	9897
UniProt ID:	Q12768
Cytogenetics:	8q24.13
Gene Summary:	This gene encodes a 134 kDa protein named strumpellin that is predicted to have multiple transmembrane domains and a spectrin-repeat-containing domain. This ubiquitously expressed gene has its highest expression in skeletal muscle. The protein is named for Strumpell disease; a form of hereditary spastic paraplegia (HSP). Spastic paraplegias are a diverse group of disorders in which the autosomal dominant forms are characterized by progressive, lower extremity spasticity caused by axonal degeneration in the terminal portions of the longest descending and ascending corticospinal tracts. More than 30 loci (SPG1-33) have been implicated in hereditary spastic paraplegia diseases. [provided by RefSeq, Aug 2009]

Product images:



Circular map for RG210620