1. FIND A GENE SEQUENCE via Entrez database

<http://www.ncbi.nlm.nih.gov/gene>

At the HOME page, enter the name of a gene/protein into the search bar

Click on top result (Homo sapiens)

Scroll to “NCBI Reference sequence” > mRNA + Protein(s) > click on the NM number > (to new page)

Click on “FASTA” > sequence appears

Highlight and paste sequence into the “nucleotide BLAST” query box

2. FIND SIMILAR SEQUENCES via BLAST search tool

<http://blast.ncbi.nlm.nih.gov/Blast.cgi?CMD=Web&PAGE_TYPE=BlastHome>

Choose ‘nucleotide BLAST’

Paste in the Entrez sequence

“Choose search set: Others”

“Program Selection: highly similar sequences”

Scroll and click the BLAST button

3.

# Homo sapiens myoglobin (MB), transcript variant 1, mRNA

# <http://www.ncbi.nlm.nih.gov/nuccore/NM_005368.2>

<http://www.ncbi.nlm.nih.gov/nuccore/44955876?report=fasta>

GCAGCCTCAAACCCCAGCTGTTGGGGCCAGGACACCCAGTGAGCCCATACTTGCTCTTTTTGTCTTCTTC AGACTGCGCCATGGGGCTCAGCGACGGGGAATGGCAGTTGGTGCTGAACGTCTGGGGGAAGGTGGAGGCT GACATCCCAGGCCATGGGCAGGAAGTCCTCATCAGGCTCTTTAAGGGTCACCCAGAGACTCTGGAGAAGT TTGACAAGTTCAAGCACCTGAAGTCAGAGGACGAGATGAAGGCGTCTGAGGACTTAAAGAAGCATGGTGC CACCGTGCTCACCGCCCTGGGTGGCATCCTTAAGAAGAAGGGGCATCATGAGGCAGAGATTAAGCCCCTG GCACAGTCGCATGCCACCAAGCACAAGATCCCCGTGAAGTACCTGGAGTTCATCTCGGAATGCATCATCC AGGTTCTGCAGAGCAAGCATCCCGGGGACTTTGGTGCTGATGCCCAGGGGGCCATGAACAAGGCCCTGGA GCTGTTCCGGAAGGACATGGCCTCCAACTACAAGGAGCTGGGCTTCCAGGGCTAGGCCCCTGCCGCTCCC ACCCCCACCCATCTGGGCCCCGGGTTCAAGAGAGAGCGGGGTCTGATCTCGTGTAGCCATATAGAGTTTG CTTCTGAGTGTCTGCTTTGTTTAGTAGAGGTGGGCAGGAGGAGCTGAGGGGCTGGGGCTGGGGTGTTGAA GTTGGCTTTGCATGCCCAGCGATGCGCCTCCCTGTGGGATGTCATCACCCTGGGAACCGGGAGTGGCCCT TGGCTCACTGTGTTCTGCATGGTTTGGATCTGAATTAATTGTCCTTTCTTCTAAATCCCAACCGAACTTC TTCCAACCTCCAAACTGGCTGTAACCCCAAATCCAAGCCATTAACTACACCTGACAGTAGCAATTGTCTG ATTAATCACTGGCCCCTTGAAGACAGCAGAATGTCCCTTTGCAATGAGGAGGAGATCTGGGCTGGGCGGG CCAGCTGGGGAAGCATTTGACTATCTGGAACTTGTGTGTGCCTCCTCAGGTATGGCAGTGACTCACCTGG TTTTAATAAAACAACCTGCAACATCTCA

# GNA12 guanine nucleotide binding protein (G protein) alpha 12 [ Homo sapiens ] (*actin*)

# <http://www.ncbi.nlm.nih.gov/gene/2768>

<http://www.ncbi.nlm.nih.gov/nuccore/42476110?report=fasta>

GGGCGACGAGTGCGGGCCTCGGAGCGACTGCAGCGGCGGCGGCGGACGCGGCCTGAGGCGAGCGGCGGGG CGTGGGGCGGTGCCTCGGCCCGGGCTCGCCCTCGCCGGCGGGAGCGTCCATGGCCCCCGGGCGCCGGCGG GGCGCGGCCGCGGCCTGAGGGGCCATGTCCGGGGTGGTGCGGACCCTCAGCCGCTGCCTGCTGCCGGCCG AGGCCGGCGGGGCCCGCGAGCGCAGGGCGGGCAGCGGCGCGCGCGACGCGGAGCGCGAGGCCCGGAGGCG TAGCCGCGACATCGACGCGCTGCTGGCCCGCGAGCGGCGCGCGGTCCGGCGCCTGGTGAAGATCCTGCTG CTGGGCGCGGGCGAGAGCGGCAAGTCCACGTTCCTCAAGCAGATGCGCATCATCCACGGCCGCGAGTTCG ACCAGAAGGCGCTGCTGGAGTTCCGCGACACCATCTTCGACAACATCCTCAAGGGCTCAAGGGTTCTTGT TGATGCACGAGATAAGCTTGGCATTCCTTGGCAGTATTCTGAAAATGAGAAGCATGGGATGTTCCTGATG GCCTTCGAGAACAAGGCGGGGCTGCCTGTGGAGCCGGCCACCTTCCAGCTGTACGTCCCGGCCCTGAGCG CACTCTGGAGGGATTCTGGCATCAGGGAGGCTTTCAGCCGGAGAAGCGAGTTTCAGCTGGGGGAGTCGGT GAAGTACTTCCTGGACAACTTGGACCGGATCGGCCAGCTGAATTACTTTCCTAGTAAGCAAGATATCCTG CTGGCTAGGAAAGCCACCAAGGGAATTGTGGAGCATGACTTCGTTATTAAGAAGATCCCCTTTAAGATGG TGGATGTGGGCGGCCAGCGGTCCCAGCGCCAGAAGTGGTTCCAGTGCTTCGACGGGATCACGTCCATCCT GTTCATGGTCTCCTCCAGCGAGTACGACCAGGTCCTCATGGAGGACAGGCGCACCAACCGGCTGGTGGAG TCCATGAACATCTTCGAGACCATCGTCAACAACAAGCTCTTCTTCAACGTCTCCATCATTCTCTTCCTCA ACAAGATGGACCTCCTGGTGGAGAAGGTGAAGACCGTGAGCATCAAGAAGCACTTCCCGGACTTCAGGGG CGACCCGCACAGGCTGGAGGACGTCCAGCGCTACCTGGTCCAGTGCTTCGACAGGAAGAGACGGAACCGC AGCAAGCCACTCTTCCACCACTTCACCACCGCCATCGACACCGAGAACGTCCGCTTCGTGTTCCATGCTG TGAAAGACACCATCCTGCAGGAGAACCTGAAGGACATCATGCTGCAGTGAGCGAGGAAGCCCCGGGGTTT GTCGTCGTTGAGCAGCCCCCACGGCTGTCGGTCAGACTCTTGGGTGTGTGTTGTCTGTGTGGTCCTTGAG TGGGTTTCTCGGATCCGTGCCCTGGAATACCTGGCTCAGGAATGCTGTCAGACCAGCCAGCCAGCGAGCT CTAGGCAAAAGGACATGGAAACTGTCACGTTAGCTACTGAATCCTGGGGGCGAGTGAAACTACTGAAAAT CCGAGTGATGATGTTGTGAATACGGAACACCTAATCACACAGCTTGCTTTGCTTTTACAGAAACGTTCCT CTTTTTCTGACGCAGTTTAATTGAGGACCGTGTTGTGTGTGTATGTGTGTACACACGCTCTGTCTTTAAT GACAGAAACACAAAAACCAGCTGGCCTTGCAGACGGCTTTTCTAACTCACAAGTCTTCCCTGAGACAGAC TAACCTGAAAGCTTTGCCTAACAGTAGCTTGTAGAGATCCAGTGCACGCCGATGCTGCTAAACTCAGTGC CTGAGCCCGGCCCTGCAGCCCCAGCCGCAGTGTCTGAAGGCCACCTCCCAAAGGGAGCACGTTGCCTTTT CAAACTCCCGTGCCGATTTCCTAAGAGCCCCTAGTCCAAGCCTCTCAGATGAAGCTGAGGAGCCGTGCCT AGGATCCCTTCCCAGCTCTGAGGACGGGCTGCAGAGCTCTGCAGGTGTGGATTCACCTTACGCCCCTACA GCAGGCTCAGCCCTTCCCACCCTGCCCCATGCCCAGCAGCACAACACGGAGTGAGACAGGATGCCCACGG TGACTGCCGCTCCGTCCGTGCACACACAGCGGTGCTCTTCTCCCCTTAGCCACCCACTGCCCAACCCAAC GGCAAAGACACAGAAACCAGGTCCCCTTGCAGACGGCTCTCCCATCTTCCTGCAAGTCATCTGCTCACAC ACAGTTGGCAGCACATAGCGTTTCCTTCTTTCAGAAACATTCCTCTTCTGGGGCTTCAGAAAGCTGGCAA GGCCACTAGCAGAGCTTTTGTTAATGCCCCAGCTGCTTGGCGAGCTAACAGCTGACCTTTCGGGAAGCCC ACAGACGCTGGAGGAATCTTGAGTTTCTCCAAACTGCCGCTCCACCAGTGCCTTTGGACAGCCGTGCCTG TTCGCCGCTCTCCCTAAGTCTGATTCTCATCGAGGCCCCTCGCTTCTATGACTGTGCTTGCAGAAGAGTA AACACTCTCGGATGCCGCTGTCCTGGGGGAGCCCGCGGGAGCCTGTGAATGTTGATACGAGCTGGCCAGT CCTGGGCCCAGCTCACTTGTCCAGCTACCTGCCAGGTGGCTTTCACTGTGTTTAAAATACATTGCATTCC AAGCTGGTCCCCTCTGTGTATCACTCTACTGAGAAATCCTGCCTAGTGTGTTTTGGGATGTGTCCTAGCA TTTACAAGAAAATGAAAAGCGTCCTCTTAATTGGCACCCGAATGTTGCTGTGGCTCAGTCACATATCCCA GGGCCCTCGTCCCGAGGCCGTGCTGCCCCGAGCCCCGAGCCCCTCTGCAGCTCACCCTTGGCTTGTTTTC CGCAAACCCGGTAAACGCAAGCCCTTGGGGCAGATGCAGAAGCAGAAGAGGGAGGGGAAACCTGCCTCTG GGTCACCCTGTTAGCACAGCGTTCTCATCGGGAGACAGCATGGAACTCTCTCTCGCAGTGCTCGAGGCTG TGTGTCAGTGTTTGCTGGGCTTGTGGCTCCTTTTTTGGCTGGATAAAGAAGTCGCTGTTTTTGTACTGCT TCTGTGGCTCTTCACAGACCTCACGGATGTGACCGGAGATGAGTGCCGATGACCACGTTTTAAAGGAGAA AGAGAGCTCCTGGTGGGGCCCTCGGGGTGGTCTCAGGTCCCATTTGCAGTCTGCAACAGTGACGCGCAGC CCGGTCCGGAGCGTGGTGAGCTTTGTTTGCCTTCTGGGTCAGCTTTCGCTGTGTCTCCTGTGTGTGTTAG AATCCAGAGCCCAGAGGAAGTGCAAGCGGGTCCTCCGCCAACGGGGAGAGCCTCTTCGCGGCGCTGTTGG CGACAGCAGCGCTGTGATTCGCGTAGCAGGGGAGTTGTTTGAAACACCTTCCTGAGTAGTCCGGCCTTGT CAATGAGTGCTTGTTTTCCTTTAAACAGTCTGACATATTTACTCGTCACTTTCAAACCAGAAGCATGAGA GGAAGGAGATATTGTGGGGTCCGTTTAACTCGATAGAAAGCGCAGGGGGATGGCCCCCGGCGCGGGCTCT TGACCCGCTCAGCGCTGACCCCACCGCCCTGGCCGAGGCACTTGGCCTTGCTGAGCTGGACTTCCTCCTC CTCCTCCTCATGACCGGGGTGAATTAGAACGTTTTTAAAGACACCCCCTTCCAAATTCTGTAACACATTG TAATTGGAGAAGAAGGAAACTCTGCAAGGCTAAACTGTCATTCACAACTTGGCTACACATAGACTCTAGT CAGTTTTGTCTCCAGAACCTTAGGCTTTTGTATTTTTTAATTTTAATTTCACTGTTAATCCTTATTGTCT TTTTTATTAAGATGTTGGAAAAGCAGGAGGTAGTTGTGCCTCAATTATTGCAAAAATGTAACAATAAAGT TCCTCAAAATAAGATCTGTTCCTCATAGCTATACTGTGTACACATAAGACGCATATAGGGTTTTACTGAA ATCTATTTTTAACTCTTATGTTCGTAGAGAAATTGTTTCAAGGATTTTGAGTCATAGGTCTGTAATTTAT AGAGATCTCTAGAATTCTTATTGTAATTTTCCTACTTCTTTGATAAAAGAAAAATAAGTCAGATTGTTAA CTCCAAGATTGAAAAAAAAAACTCTTGAAAGAAGATTATTAGTTGTAACTAATTTAGGGGTTCTGGGCAC AGACATCTAACCTGGTATTGTAAGGCAGAGGCTCCCATTGGAATGGTAGTGGTCCGGGTCAGTTGTTCAT GGTGTAAGCTTTGCACAGTGTATTAACATTGGGAGGGTCTGGCTTGAAAATTTGGCCACCCTCAGCCTCT GAATGTTTATTAAAATAAATTTAGTCTTTCTTTGCTTAATATAAAAAAAAAAAAAAAA

**HBB hemoglobin, beta**

[**http://www.ncbi.nlm.nih.gov/nuccore/NM\_000518.4**](http://www.ncbi.nlm.nih.gov/nuccore/NM_000518.4)

[**http://www.ncbi.nlm.nih.gov/nuccore/28302128?report=fasta**](http://www.ncbi.nlm.nih.gov/nuccore/28302128?report=fasta)

ACATTTGCTTCTGACACAACTGTGTTCACTAGCAACCTCAAACAGACACCATGGTGCATCTGACTCCTGA GGAGAAGTCTGCCGTTACTGCCCTGTGGGGCAAGGTGAACGTGGATGAAGTTGGTGGTGAGGCCCTGGGC AGGCTGCTGGTGGTCTACCCTTGGACCCAGAGGTTCTTTGAGTCCTTTGGGGATCTGTCCACTCCTGATG CTGTTATGGGCAACCCTAAGGTGAAGGCTCATGGCAAGAAAGTGCTCGGTGCCTTTAGTGATGGCCTGGC TCACCTGGACAACCTCAAGGGCACCTTTGCCACACTGAGTGAGCTGCACTGTGACAAGCTGCACGTGGAT CCTGAGAACTTCAGGCTCCTGGGCAACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGAATTCA CCCCACCAGTGCAGGCTGCCTATCAGAAAGTGGTGGCTGGTGTGGCTAATGCCCTGGCCCACAAGTATCA CTAAGCTCGCTTTCTTGCTGTCCAATTTCTATTAAAGGTTCCTTTGTTCCCTAAGTCCAACTACTAAACT GGGGGATATTATGAAGGGCCTTGAGCATCTGGATTCTGCCTAATAAAAAACATTTATTTTCATTGC

# KRT18 keratin 18 [ Homo sapiens ]

<http://www.ncbi.nlm.nih.gov/gene/3875>

<http://www.ncbi.nlm.nih.gov/nuccore/40354193?report=fasta>

TCCGGGGCGGGGGCGGGGCCTCACTCTGCGATATAACTCGGGTCGCGCGGCTCGCGCAGGCCGCCACCGT CGTCCGCAAAGCCTGAGTCCTGTCCTTTCTCTCTCCCCGGACAGCATGAGCTTCACCACTCGCTCCACCT TCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGCCGGTCAGCAGCGC GGCCAGCGTCTATGCAGGCGCTGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCAGG GGCGGCATGGGGTCCGGGGGCCTGGCCACCGGGATAGCCGGGGGTCTGGCAGGAATGGGAGGCATCCAGA ACGAGAAGGAGACCATGCAAAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGA GACCGAGAACCGGAGGCTGGAGAGCAAAATCCGGGAGCACTTGGAGAAGAAGGGACCCCAGGTCAGAGAC TGGAGCCATTACTTCAAGATCATCGAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCC GCATCGTTCTGCAGATTGACAATGCCCGTCTTGCTGCTGATGACTTTAGAGTCAAGTATGAGACAGAGCT GGCCATGCGCCAGTCTGTGGAGAACGACATCCATGGGCTCCGCAAGGTCATTGATGACACCAATATCACA CGACTGCAGCTGGAGACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACCACGAAG AGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCGTGGAGGTAGATGCCCCCAAATC TCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGAGCTGGCTCGGAAGAACCGAGAG GAGCTAGACAAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACAGTGGTCACCACACAGTCTGCTGAGG TTGGAGCTGCTGAGACGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCTTGGAGATCGACCTGGACTC CATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACGCCCTACAGATG GAGCAGCTCAACGGGATCCTGCTGCACCTTGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGACAGCGCC AGGCCCAGGAGTATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCG CCTGCTGGAAGATGGCGAGGACTTTAATCTTGGTGATGCCTTGGACAGCAGCAACTCCATGCAAACCATC CAAAAGACCACCACCCGCCGGATAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGA GGCATTAAGCCAGCAGAAGCAGGGTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTTCAGAGTTCAAAA AAAAAAAAAAAAAAA

# MYO9B myosin IXB [ Homo sapiens ]

<http://www.ncbi.nlm.nih.gov/gene/4650>

<http://www.ncbi.nlm.nih.gov/nuccore/194272141?report=fasta>

CGGGGCGGAGCGGCTCGAGCAGCGGCGGGCTGGCAGGCGGTCGTCCGGCCGGGGACCCGGCCCGGGACCG GCGGCGCGCGGCGGCCGAGGCCAGCTCCAGGACACGCGCGCCCCGAGCCTGGGAGGCATGCTGAAGCCAG GCGGCCGGCAGGATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCTACCACCTGC ACATCTACCCCCAGCTGTCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCAC CACCTCGGACGTCATCAAGGACGCCATTGCCAGCCTGCGGCTGGACGGCACCAAATGTTATGTGCTGGTG GAGGTCAAAGAGTCGGGAGGCGAGGAATGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGC TATGGCCCCGGCGGGCACAGGACGAGCACCCTCAGGAGGATGGCTACTACTTCCTGCTGCAGGAGCGCAA CGCAGATGGAACCATCAAGTACGTGCATATGCAGCTGGTGGCGCAGGCCACAGCCACCCGGCGCCTAGTG GAGCGTGGCCTCCTGCCACGGCAGCAGGCGGACTTTGATGACCTGTGTAACCTCCCCGAGCTAACCGAGG GCAACCTCCTGAAGAACCTCAAGCACCGCTTCCTGCAACAAAAGATCTACACGTACGCGGGGAGCATCCT GGTGGCCATCAACCCCTTTAAGTTCCTGCCCATCTACAACCCCAAGTACGTGAAGATGTATGAGAACCAG CAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACCATGCTCAGGAAGC GCGTGAACCAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAACTTCCTCAT CCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCCTGGGTGCTGGC CCTGTGCTGGAGGCTTTTGGAAATGCCAAGACAGCCCACAACAACAACTCCAGCCGGTTTGGGAAATTCA TCCAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTCGTCGAGAAATATCTGCTTGAAAAGTC TCGCCTGGTGTCTCAGGAGAAGGATGAGAGGAACTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGC GAGGAAGAGCGCCAAGAATTTCAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGA AGATTGAAGATGGGGAGGACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTT CCTCCCCGCCACCAAGAAGCAGATTTTTGCCGTCCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTAT AAGAAGAGAGCTACAGGCCGAGAGGAAGGGTTGGAGGTCGGGCCACCCGAGGTGCTGGACACCCTGTCGC AGCTTCTGAAGGTGAAGCGAGAAATCTTGGTGGAGGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGA CAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATCACTGCCCGCGACTCCATGGCCAAGTCTCTGTAC AGCGCCCTGTTCGACTGGATTGTGCTGCGGATCAACCACGCACTCCTCAACAAGAAGGACGTGGAAGAGG CAGTCTCGTGCCTGTCCATTGGGGTCCTGGACATCTTCGGGTTTGAAGACTTCGAGAGGAACAGCTTTGA GCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAGCACATCTTCAAGCTGGAG CAGGAGGAATATCAGGGCGAGGGGATCACGTGGCACAACATCGGCTACACAGACAATGTCGGCTGCATCC ATCTCATCAGCAAGAAACCCACGGGCCTCTTCTACCTGCTGGACGAGGAGAGCAACTTCCCCCACGCCAC GAGCCAGACCCTGCTGGCCAAGTTCAAACAGCAACATGAGGACAATAAGTACTTCCTGGGCACCCCGGTC ATGGAGCCAGCTTTCATCATCCAGCACTTCGCAGGGAAGGTGAAATATCAGATCAAGGACTTCCGGGAGA AGAACATGGACTACATGCGGCCAGACATCGTGGCCCTGCTGCGGGGCAGTGACAGCTCCTACGTGCGGGA GCTCATCGGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCA GTGCTTCGGGAGGCCGGACGCCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTG CCCAAAGTCACCCAGAAGAGCTGCCAAGAGGAGCCAGCACCCCTTCGGAAAAACTTTACCGCGATTTGCA TAACCAAATGATCAAGAGCATCAAAGGATTGCCCTGGCAGGGCGAGGACCCCCGTAGCCTTCTCCAGTCC CTCAGTCGGCTCCAGAAACCCCGCGCCTTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTC CAAAGAACCTACTGGACTCCAAGTCCCTGAAACTCATCATCAGCATGACTCTGCACGACCGCACCACCAA GTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCAAGCATCAGCGCCCAGTTCCAGACATCCCTTAAC AAGCTCTTGGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATCCGCTGCATCCGTTCCAATGCTGAAAAGA AAGAGCTGTGCTTTGACGACGAGCTGGTCCTGCAGCAGCTGCGCTACACCGGCATGCTGGAGACCGTGCG CATCCGGAGGTCAGGGTACAGCGCCAAGTACACGTTCCAGGATTTCACCGAGCAGTTCCAGGTGCTCCTG CCCAAGGATGCCCAGCCCTGCAGGGAGGTCATCTCCACCCTCCTGGAGAAAATGAAGATAGACAAGAGGA ACTACCAGATCGGGAAGACCAAGGTCTTCCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAGACGCTGCA CCGGGAGGTGGTGCGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGCTGGAGCGTCGGCACTTC CTGCAGATGAAGCGGGCCGCCGTCACCATCCAGGCCTGCTGGCGGTCCTACCGGGTCCGGAGGGCGCTGG AGAGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTCTACCGGCA CCAGAAACAGAGCATCATCCGCCTGCAGAGCCTGTGTCGGGGGCACCTGCAGCGCAAGAGCTTCAGCCAG ATGATCTCGGAGAAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTG AGGAGGGCGGACAGGGTCAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCCGGAGCCAGCGGAGGA TGGCGGGCACCTGGCATCGGAGCCTGAGGTGCAGCCAAGTGACAGGTCCCCCCTAGAGCACTCCTCACCT GAGAAGGAGGCCCCAAGCCCAGAGAAGACTCTCCCACCCCAGAAAACCGTGGCGGCTGAAAGTCACGAGA AAGTCCCCAGCAGCCGGGAGAAGCGTGAGTCGCGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCCAGAA CAAACACATCCAGTCCTGCAAGGAGGAGAGTGCCCTCAGAGAACCTTCCAGAAGGGTCACCCAGGAGCAA GGGGTGAGTCTCCTGGAAGACAAAAAGGAGAGCAGAGAAGATGAAACCCTTCTAGTCGTAGAGACGGAGG CTGAGAACACATCTCAAAAGCAGCCCACAGAGCAACCCCAGGCCATGGCAGTTGGCAAGGTCTCTGAAGA AACTGAGAAGACGCTGCCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGGCCGACCAGCCTGGCCCTG GACAGCAGGGTCAGCCCACCGGCCCCTGGCAGCGCCCCCGAGACCCCCGAGGACAAGAGCAAACCATGTG GCAGCCCAAGGGTTCAGGAAAAGCCCGACAGCCCCGGAGGCTCCACGCAGATCCAGCGGTACCTGGACGC CGAGCGGCTGGCCAGCGCCGTGGAACTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGCCAGCCCTAGTGCC ATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCACGCCCACAGAGG AGAGGCGCACCTCCTTCTCCACGAGCGACGTCTCCAAGCTCCTCCCGTCCCTGGCCAAGGCTCAGCCTGC AGCAGAAACCACGGACGGAGAGCGAAGTGCGAAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCA TCCTCCCTCCCAGACGCAGGGCTGTCCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAGAGGCTTT TTCTGCATAAAACCAAGGATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGG GCACGTGGTGCTGGAAGCCACCACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCAC GCTGCAGGTGAGAAGCGCACCAAGGAACCAGGAGGCAAAGGGAAGAAGAACCGAAATGTCAAGATTGGGA AGATCACAGTGTCAGAGAAGTGGCGGGAATCGGTGTTCCGCCAGATCACCAACGCCAATGAGCTCAAGTA CCTGGACGAGTTCCTGCTCAACAAGATAAATGACCTCCGTTCCCAGAAGACGCCCATTGAGAGCTTGTTT ATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAACGATGTACTCTGTCCCGAACGGGAAGATCCACG TGGGCTACAAGGATCTGATGGAGAACTACCAGATCGTCGTCAGCAACCTGGCCACTGAGCGTGGCCAGAA GGACACCAACCTGGTCCTCAACCTCTTCCAGTCACTGCTAGATGAGTTCACCCGTGGCTACACCAAGAAC GACTTCGAGCCAGTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGTGCTGTCCAGGAGC ACAACGGGCACGTGTTCGCCAGCTACCAGGTTAGCATCCCGCAGTCGTGCGAGCAGTGCCTCTCCTATAT CTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCGTGCACAAG ATTCAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCG TGTGCGTAGACAGCCTGACCAGCGACAAGGCCTCGGTGCCCATCGTGCTGGAGAAGCTCCTGGAACACGT GGAGATGCACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCGCACTCGGGAGCTC CGGCAGGCGCTGCAGACAGACCCCGCAGCAGTCAAGCTGGAGAACTTCCCCATCCACGCCATCACAGGGG TGCTGAAGCAGTGGCTGCGGGAGCTGCCCGAGCCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCG AGCCGTCGAGCTGCCGGAGAAGCAGGAGCAGCTGGCTGCCATCTATGCCGTCCTGGAGCACCTTCCAGAA GCCAACCACAACTCCCTGGAGAGACTCATCTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACC GCATGTCACCTGGGGCGCTGGCCATTATCTTCGCACCCTGCCTCCTGCGCTGCCCTGACAACTCGGACCC GCTGACCAGCATGAAGGACGTCCTCAAGATCACCACGTGCGTGGAGATGCTGATCAAGGAGCAGATGAGG AAATACAAAGTGAAGATGGAGGAGATCAGCCAACTGGAGGCTGCAGAGAGTATCGCCTTCCGCAGGCTTT CGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAACTGGGGTTTTCGTCTCCCTATGAGGGGGTCCTGAA CAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTGGAGGAGGAGGCAGCCGGC GGCGATGAGGACCGGGAAAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAGGAGAAGGAGGACA TCACCTACCGGCTGCCGGAGCTGGACCCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAGACGTCGGC CAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGGCCTCGGAAGGTCAGTATTAAGGGCCCCCT GCGCCTGCTCTCCCTTGCCCCGGCGCGCCCACCCCGAGCCCCCTCCCCACCGTGGCCGCCCCTCCACGAC GAAGGCCGTCGTCCTTCGTAACGGTCAGAGTGAAGACCCCCCGGCGGACCCCCATCATGCCCACGGCCAA CATCAAGCTCCCACCAGGCCTGCCCTCCCACCTGCCTCGCTGGGCACCGGGTGCCCGGGAGGCGGCTGCC CCAGTGCGGCGCCGGGAGCCACCTGCCCGCCGCCCGGACCAGATACATTCCGTGTACATCACGCCCGGGG CAGACCTGCCAGTGCAGGGCGCCCTGGAGCCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAG GTACTCGGATCCCCCAACGTACTGCCTGCCCCCCGCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTG ACAAAGTCTGCATGTCCGAGGACGGCCCCTGCACTGGAGCTGGGCGCCAGAGCTGCAGAGCTAGTGTTCG GCCCTCAGAGAAGGATCCAGAATCAAAAGCTCAAGAGTGACGTGAGGTGGGCACCGGCCCCAAGTGCAGA GTCAAGGCAGGGAGAGGCCGGCTGGAGCCAGGCCCCCTCGCACGCAGCCCCCAAATCATGGACGCACCTG TGGGGAGCACCACATCTCCACCTGCGGCCTCACATCTCCCCACTCCCCTTTTTGTACGTTTAACTGTTTC TTTGTACGTGGTTTACGTAACTTTAAACTGTAACAGCCTTAATGGAAGACCAAATGGTTTTTTATATGTG TATGTACAAAGTTTTCTATTAACGCTGCCCGTCTCCCTTATAACCTGGACGTGAGCTGTCAGAGCAGAAG CCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCAATGGGCTGGGA CCCTCCATGAGAGTTTTGGACACTTGGGTCACCTGACCCGTGCCTCTCTGACACATGTCTCCGGGGGGCA GCCACCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCCATGGGGGTCTGGGCTATTGGCTGGAGC CAGGACATGAGTCAGGGGCACCATGGACCTCACGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCCG GACGCCAAGGGCTGCAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACT CAGGACTGCTCACGGGTCAGGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCT GGGGATCTCTGGAGCAGGGCCCTCCTCTCTCAGGCTTGGCCCACTCCCCCAGACACCTGGACACGTGGCC ACAAATCTGGGACAAGGGGCCCCCGCACAGCATGAAATAAAAAGTGCCTGAGAAGTGTGTGCAAAAAAAA AAAAAAAAAAAAAAAAAAAAAA

# WWP1 WW domain containing E3 ubiquitin protein ligase 1 [ Homo sapiens ]

<http://www.ncbi.nlm.nih.gov/nuccore/NM_007013.3>

<http://www.ncbi.nlm.nih.gov/nuccore/33946331?report=fasta>

GGCTGCTGGCGGCCTGGGCTGCCGGGGCCGACGCCTGGGTGGCTGCTGCCGCCGCGCCTGCTGCGAGATG GCGATCTTGGGCGCGGAAGGGTGAGGGCGCCCGCCGCAGGAGGAGGTGCCGCTGCCGTGGCCGCCCGGCT GCCGGGAGCCGACAGCTTCGCGCCGGGGTTGTCTCCTCACAGACTATGAGCTCCTTGAAAGAGGGAATCG TGTCTTACTCATCTTTGTATCCCCAGTGTCTAGCAGTTCCTGATACATAGTTTTAGCTGAATTTTGGGAC ATGGCCACTGCTTCACCAAGGTCTGATACTAGTAATAACCACAGTGGAAGGTTGCAGTTACAGGTAACTG TTTCTAGTGCCAAACTTAAAAGAAAAAAGAACTGGTTCGGAACAGCAATATATACAGAAGTAGTTGTAGA TGGAGAAATTACGAAAACAGCAAAATCCAGTAGTTCTTCTAATCCAAAATGGGATGAACAGCTAACTGTA AATGTTACGCCACAGACTACATTGGAATTTCAAGTTTGGAGCCATCGCACTTTAAAAGCAGATGCTTTAT TAGGAAAAGCAACGATAGATTTGAAACAAGCTCTGTTGATACACAATAGAAAATTGGAAAGAGTGAAAGA ACAATTAAAACTTTCCTTGGAAAACAAGAATGGCATAGCACAAACTGGTGAATTGACAGTTGTGCTTGAT GGATTGGTGATTGAGCAAGAAAATATAACAAACTGCAGCTCATCTCCAACCATAGAAATACAGGAAAATG GTGATGCCTTACATGAAAATGGAGAGCCTTCAGCAAGGACAACTGCCAGGTTGGCTGTTGAAGGCACGAA TGGAATAGATAATCATGTACCTACAAGCACTCTAGTCCAAAACTCATGCTGCTCGTATGTAGTTAATGGA GACAACACACCTTCATCTCCGTCTCAGGTTGCTGCCAGACCCAAAAATACACCAGCTCCAAAACCACTCG CATCTGAGCCTGCCGATGACACTGTTAATGGAGAATCATCCTCATTTGCACCAACTGATAATGCGTCTGT CACGGGTACTCCAGTAGTGTCTGAAGAAAATGCCTTGTCTCCAAATTGCACTAGTACTACTGTTGAAGAT CCTCCAGTTCAAGAAATACTGACTTCCTCAGAAAACAATGAATGTATTCCTTCTACCAGTGCAGAATTGG AATCTGAAGCTAGAAGTATATTAGAGCCTGACACCTCTAATTCTAGAAGTAGTTCTGCTTTTGAAGCAGC CAAATCAAGACAGCCAGATGGGTGTATGGATCCTGTACGGCAGCAGTCTGGGAATGCCAACACAGAAACC TTGCCATCAGGGTGGGAACAAAGAAAAGATCCTCATGGTAGAACCTATTATGTGGATCATAATACTCGAA CTACCACATGGGAGAGACCACAACCTTTACCTCCAGGTTGGGAAAGAAGAGTTGATGATCGTAGAAGAGT TTATTATGTGGATCATAACACCAGAACAACAACGTGGCAGCGGCCTACCATGGAATCTGTCCGAAATTTT GAACAGTGGCAATCTCAGCGGAACCAATTGCAGGGAGCTATGCAACAGTTTAACCAACGATACCTCTATT CGGCTTCAATGTTAGCTGCAGAAAATGACCCTTATGGACCTTTGCCACCAGGCTGGGAAAAAAGAGTGGA TTCAACAGACAGGGTTTACTTTGTGAATCATAACACAAAAACAACCCAGTGGGAAGATCCAAGAACTCAA GGCTTACAGAATGAAGAACCCCTGCCAGAAGGCTGGGAAATTAGATATACTCGTGAAGGTGTAAGGTACT TTGTTGATCATAACACAAGAACAACAACATTCAAAGATCCTCGCAATGGGAAGTCATCTGTAACTAAAGG TGGTCCACAAATTGCTTATGAACGCGGCTTTAGGTGGAAGCTTGCTCACTTCCGTTATTTGTGCCAGTCT AATGCACTACCTAGTCATGTAAAGATCAATGTGTCCCGGCAGACATTGTTTGAAGATTCCTTCCAACAGA TTATGGCATTAAAACCCTATGACTTGAGGAGGCGCTTATATGTAATATTTAGAGGAGAAGAAGGACTTGA TTATGGTGGCCTAGCGAGAGAATGGTTTTTCTTGCTTTCACATGAAGTTTTGAACCCAATGTATTGCTTA TTTGAGTATGCGGGCAAGAACAACTATTGTCTGCAGATAAATCCAGCATCAACCATTAATCCAGACCATC TTTCATACTTCTGTTTCATTGGTCGTTTTATTGCCATGGCACTATTTCATGGAAAGTTTATCGATACTGG TTTCTCTTTACCATTCTACAAGCGTATGTTAAGTAAAAAACTTACTATTAAGGATTTGGAATCTATTGAT ACTGAATTTTATAACTCCCTTATCTGGATAAGAGATAACAACATTGAAGAATGTGGCTTAGAAATGTACT TTTCTGTTGACATGGAGATTTTGGGAAAAGTTACTTCACATGACCTGAAGTTGGGAGGTTCCAATATTCT GGTGACTGAGGAGAACAAAGATGAATATATTGGTTTAATGACAGAATGGCGTTTTTCTCGAGGAGTACAA GAACAGACCAAAGCTTTCCTTGATGGTTTTAATGAAGTTGTTCCTCTTCAGTGGCTACAGTACTTCGATG AAAAAGAATTAGAGGTTATGTTGTGTGGCATGCAGGAGGTTGACTTGGCAGATTGGCAGAGAAATACTGT TTATCGACATTATACAAGAAACAGCAAGCAAATCATTTGGTTTTGGCAGTTTGTGAAAGAGACAGACAAT GAAGTAAGAATGCGACTATTGCAGTTCGTCACTGGAACCTGCCGTTTACCTCTAGGAGGATTTGCTGAGC TCATGGGAAGTAATGGGCCTCAAAAGTTTTGCATTGAAAAAGTTGGCAAAGACACTTGGTTACCAAGAAG CCATACATGTTTTAATCGCTTGGATCTACCACCATATAAGAGTTATGAACAACTAAAGGAAAAACTTCTT TTTGCAATAGAAGAGACAGAGGGATTTGGACAAGAATGAATGTGGCTTCTTATTTTGGAGGAGCTCTTGC ATTTAAATACCCCAGCCAAGAAAAATTGCACAGATAGTGTATATAAGCTGTTCATTCTGTACAGTGAATT TTCCGAACCTCTCAAAGTATGTTTTCCGTTCTTCCACAGAAATATGCAAAACAGTTCATCCTTTTCTACT TTATTTATTGTTCCCTTGAAATGACTGACCAGGAAAAAGATCATCCTTAAATTTTGAAGCAAGTGAGAGA CTTTATTAAAAATACATATATATCTATATAAACATATATGATAGTGGCTCTAGTTTTATAGAGCTCCAAG TGTATTAAACATGACAGCCATTCATTCATAAAGATCTGGATTTGCTTTACCTTGTTAATATTATCTAGGG GAAAAAGTGCAAATTGCTCCATGTTCTTCTCTCCCTTATGTAACATCTCCTGAGGGTGTTTAGTTGCATG GCTGTTCAGAAAGGTATTAAGGGCTTAGGCCAAATCTTACTTTGAGTATGTTAAAAAAAAAAAAATGCTG CTGGCTTTTCTGAAGACAGGTGCTTGAACTTGTCAGTTTGTTTTAAATAAATACAATAGTTGAAAATTTT TCTCTGTTACATCAGTAATATTGTTAAAGTAATGGATAGAACCATAACTTACACATGAAAGTCATATACT AGATCCAATACTATTTAGTTTATTATCGAAATTGGAAGGATTCATTGAGCAGCATAGAAGTTTGTTTACA TGTTACTTTGAGATGCTAGGTATTTGTGGAATTAAAAAGAATCAGGCTCTTTTGTACTTTGTTTTTAAAT CTGTGATGCTTTTCAAATTTAATTCATAATAAATTGATGCAATTTCATACTTAGGAACATACAAAAGGTA ATGTAAACTCTGCCACTTTTTTGTGTTCAAAATTTTGGTTTTTATGAAGCCAGATGGATTGAAGAGTTAC ATAAGCATTTGAATGCTCTAATATAAGGCTAATGATTTTCTGTTAGTGTTTGAATATCTTCATTCCTCTC AAATTCATAACAGTTCTATTTAACTGAATTAAATAACCATATGAAAAAAAAAAAAAAAAA