Bone Morphogenetic Protein 10 (BMP10)
DNA Sequence (5’ to 3’):
ATGGGTTCTCTGGTTCTGCCGCTGAGCGCCGTCTTCTGCCTGGTGGCTCGTCTGGCTTCTG GCAGCCCCATCATGGGCCTTGAGCAGTCGCCCCTGGAAGAAGACATGCCCTTCTTTGATGA TATCTTCACAGAACAAGATGGTATTGACTTCAACACACTGCTGCAGAGCATGAAGGACGAGT TTCTCAAGACGTTGAATCTGTCAGACATTCCCCCACAGGACACAGGCAGAGTGGATCCGCC GGAGTACATGCTGGAGCTCTACAACAAATTCGCCACGGACCGGACCTCCATGCCATCTGCT AACATCATCCGGAGCTTCAAGAATGAAGATCTGTTTTCTCAACCAGTCAGTTTCAATGGGATC CGGAAGTATCCTCTCCTCTTCAACGTGTCCATCCCTCACCACGAAGAGGTCGTCATGGCTGA ACTGAGGTTGTACACGCTGGTGCAGAGAGATCGTTTGATGTATGATGGTGTGGACCGTAAAA TAATCATCTTTGAGGTTCTAGAGAGTGCCGATGGTAGCGAGGATGAGAGGAGCATGCTGGT CTTGGTATCAACAGAGATCTACGGAACCAACAGTGAGTGGGAGACATTTGACATCACGGATG CCACCAGACGTTGGCAAAAGTCAGGCCCATCAACCCACCAGCTGGAGATCCACATCGAAAG CAGACAAAACCAAGCTGAGGACACCGGAAGGGGACAACTGGAAATAGATATGAGTGCTCAG AATAAGCACGACCCTTTGCTTGTTGTGTTTTCTGATGACCAAAGCGGTGACAAGGAGCAGAA AGAAGAGCTGAATGAACTGATCTCCCACGAGCAGGATCTGGACCTGGGCACCGATGGTTTC TTTGGTGGGCCTGATGAAGAGGCTCTCCTGCAGATGAGGTCAAACATGATCGATGACTCTAC CGCTCGGATCAGGAGGAACGCCAAGGGGAACTACTGCAAGAAGACTCCACTGTACATCGAC TTCAAGGAGATCGGCTGGGACTCCTGGATCATCGCGCCTCCTGGTTACGAGGCCTATGAGT GCCGCGGTGTGTGCAACTACCCTCTGGCGGAGCACCTCACACCTACGAAACACGCAATTAT CCAGGCCTTGGTCCACCTCAAGAATTCCCAGAAAGCCTCCAAAGCCTGCTGCGTGCCCACG AAGCTGGATCCCATCTCCATCCTCTATTTAGATAAAGGTGTTGTCACCTATAAGTTTAAATAC GAAGGAATGGCCGTGTCTGAATGTGGCTGTAGATAG
Protein Sequence:
MGSLVLTLCALFCLAAYLVSGSPIMNLEQSPLEEDMSLFGDVFSEQDGVDFNTLLQSMKD EFLKTLNLSDIPTQDSAKVDPPEYMLELYNKFATDRTSMPSANIIRSFKNEDLFSQPVSF NGLRKYPLLFNVSIPHHEEVIMAELRLYTLVQRDRMIYDGVDRKITIFEVLESKGDNEGE RNMLVLVSGEIYGTNSEWETFDVTDAIRRWQKSGSSTHQLEVHIESKHDEAEDASSGRLE IDTSAQNKHNPLLIVFSDDQSSDKERKEELNEMISHEQLPELDNLGLDSFSSGPGEEALL QMRSNIIYDSTARIRRNAKGNYCKRTPLYIDFKEIGWDSWIIAPPGYEAYECRGVCNYPL AEHLTPTKHAIIQALVHLKNSQKASKACCVPTKLEPISILYLDKGVVTYKFKYEGMAVSECGCR

Chloramphenicol Acetyltransferase (CAT)
DNA Sequence (5’ to 3’):
ATGGAAAAAAAAAATTACCGGCTATACCACCGTGGATATTAGCCAGTGGCATCGCAAAGAACA TTTTGAAGCGTTTCAGAGCGTGGCGCAGTGCACCTATAACCAGACCGTGCAGCTGGATATTA CCGCGTTTCTGAAAACCGTGAAAAAAAACAAACATAAATTTTATCCGGCGTTTATTCATATTCT GGCGCGCCTGATGAACGCGCATCCGGAATTTCGCATGGCGATGAAAGATGGCGAACTGGT GATTTGGGATAGCGTGCATCCGTGCTATACCGTGTTTCATGAACAGACCGAAACCTTTAGCA GCCTGTGGAGCGAATATCATGATGATTTTCGCCAGTTTCTGCATATTTATAGCCAGGATGTG GCGTGCTATGGCGAAAACCTGGCGTATTTTCCGAAAGGCTTTATTGAAAACATGTTTTTTGTG AGCGCGAACCCGTGGGTGAGCTTTACCAGCTTTGATCTGAACGTGGCGAACATGGATAACT TTTTTGCGCCGGTGTTTACCATGGGCAAATATTATACCCAGGGCGATAAAGTGCTGATGCCG CTGGCGATTCAGGTGCATCATGCGGTGTGCGATGGCTTTCATGTGGGCCGCATGCTGAACG AACTGCAGCAGTATTGCGATGAATGGCAGGGCGGCGCG
Protein Sequence:
MEKKITGYTTVDISQWHRKEHFEAFQSVAQCTYNQTVQLDITAFLKTVKKNKHKFYPAFI HILARLMNAHPEFRMAMKDGELVIWDSVHPCYTVFHEQTETFSSLWSEYHDDFRQFLHIY SQDVACYGENLAYFPKGFIENMFFVSANPWVSFTSFDLNVANMDNFFAPVFTMGKYYTQG DKVLMPLAIQVHHAVCDGFHVGRMLNELQQYCDEWQGGA

Caspase 9 (CASP9)
DNA Sequence (5’ to 3’):
ATGGACGAAGCGGATCGGCGGCTCCTGCGGCGGTGCCGGCTGCGGCTGGTGGAAGAGCT GCAGGTGGACCAGCTCTGGGACGCCCTGCTGAGCCGCGAGCTGTTCAGGCCCCATATGAT CGAGGACATCCAGCGGGCAGGCTCTGGATCTCGGCGGGATCAGGCCAGGCAGCTGATCAT AGATCTGGAGACTCGAGGGAGTCAGGCTCTTCCTTTGTTCATCTCCTGCTTAGAGGACACAG GCCAGGACATGCTGGCTTCGTTTCTGCGAACTAACAGGCAAGCAGCAAAGTTGTCGAAGCC AACCCTAGAAAACCTTACCCCAGTGGTGCTCAGACCAGAGATTCGCAAACCAGAGGTTCTCA GACCGGAAACACCCAGACCAGTGGACATTGGTTCTGGAGGATTTGGTGATGTCGAGCAGAA AGACCATGGGTTTGAGGTGGCCTCCACTTCCCCTGAAGACGAGTCCCCTGGCAGTAACCCC GAGCCAGATGCCACCCCGTTCCAGGAAGGTTTGAGGACCTTCGACCAGCTGGACGCCATAT CTAGTTTGCCCACACCCAGTGACATCTTTGTGTCCTACTCTACTTTCCCAGGTTTTGTTTCCT GGAGGGACCCCAAGAGTGGCTCCTGGTACGTTGAGACCCTGGACGACATCTTTGAGCAGTG GGCTCACTCTGAAGACCTGCAGTCCCTCCTGCTTAGGGTCGCTAATGCTGTTTCGGTGAAA GGGATTTATAAACAGATGCCTGGTTGCTTTAATTTCCTCCGGAAAAAACTTTTCTTTAAAACAT CATAA
Protein Sequence:
MDEADRRLLRRCRLRLVEELQVDQLWDALLSRELFRPHMIEDIQRAGSGSRRDQARQLII DLETRGSQALPLFISCLEDTGQDMLASFLRTNRQAAKLSKPTLENLTPVVLRPEIRKPEV LRPETPRPVDIGSGGFGDVGALESLRGNADLAYILSMEPCGHCLIINNVNFCRESGLRTR TGSNIDCEKLRRRFSSLHFMVEVKGDLTAKKMVLALLELAQQDHGALDCCVVVILSHGCQ ASHLQFPGAVYGTDGCPVSVEKIVNIFNGTSCPSLGGKPKLFFIQACGGEQKDHGFEVAS TSPEDESPGSNPEPDATPFQEGLRTFDQLDAISSLPTPSDIFVSYSTFPGFVSWRDPKSG SWYVETLDDIFEQWAHSEDLQSLLLRVANAVSVKGIYKQMPGCFNFLRKKLFFKTS

Dual Emission Green Fluorescent Protein (deGFP)
DNA Sequence (5’ to 3’):
ATGGAGCTTTTCACTGGCGTTGTTCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCC ACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGA AGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGAC CTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAG TCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCAACT ACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGA AGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAA CAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAG ATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACC CCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCACCCAGTCCGCC CTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCC GCCGGGATCTAA
Protein Sequence:
MELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTLVTTLTYGVQ CFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKED GNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDN HYLSTQSALSKDPNEKRDHMVLLEFVTAAGI

Prothrombin (FII)
DNA Sequence (5’ to 3’):
ATGGCGCACGTCCGAGGCTTGCAGCTGCCTGGCTGCCTGGCCCTGGCTGCCCTGTGTAGC CTTGTGCACAGCCAGCATGTGTTCCTGGCTCCTCAGCAAGCACGGTCGCTGCTCCAGCGGG TCCGGCGAGCCAACACCTTCTTGGAGGAGGTGCGCAAGGGCAACCTAGAGCGAGAGTGCG TGGAGGAGACGTGCAGCTACGAGGAGGCCTTCGAGGCTCTGGAGTCCTCCACGGCTACGG ATGTGTTCTGGGCCAAGTACACAGCTTGTGAGACAGCGAGGACGCCTCGAGATAAGCTTGC TGCATGTCTGGAAGGTAACTGTGCTGAGGGTCTGGGTACGAACTACCGAGGGCATGTGAAC ATCACCCGGTCAGGCATTGAGTGCCAGCTATGGAGGAGTCGCTACCCACATAAGCCTGAAA TCAACTCCACTACCCATCCTGGGGCCGACCTACAGGAGAATTTCTGCCGCAACCCCGACAG CAGCACCACGGGACCCTGGTGCTACACTACAGACCCCACCGTGAGGAGGCAGGAATGCAG CATCCCTGTCTGTGGCCAGGATCAAGTCACTGTAGCGATGACTCCACGCTCCGAAGGCTCC AGTGTGAATCTGTCACCTCCATTGGAGCAGTGTGTCCCTGATCGGGGGCAGCAGTACCAGG GGCGCCTGGCGGTGACCACACATGGGCTCCCCTGCCTGGCCTGGGCCAGCGCACAGGCC AAGGCCCTGAGCAAGCACCAGGACTTCAACTCAGCTGTGCAGCTGGTGGAGAACTTCTGCC GCAACCCAGACGGGGATGAGGAGGGCGTGTGGTGCTATGTGGCCGGGAAGCCTGGCGAC TTTGGGTACTGCGACCTCAACTATTGTGAGGAGGCCGTGGAGGAGGAGACAGGAGATGGG CTGGATGAGGACTCAGACAGGGCCATCGAAGGGCGTACCGCCACCAGTGAGTACCAGACT TTCTTCAATCCGAGGACCTTTGGCTCGGGAGAGGCAGACTGTGGGCTGCGACCTCTGTTCG AGAAGAAGTCGCTGGAGGACAAAACCGAAAGAGAGCTCCTGGAATCCTACATCGACGGGCG CATTGTGGAGGGCTCGGATGCAGAGATCGGCATGTCACCTTGGCAGGTGATGCTTTTCCGG AAGAGTCCCCAGGAGCTGCTGTGTGGGGCCAGCCTCATCAGTGACCGCTGGGTCCTCACC GCCGCCCACTGCCTCCTGTACCCGCCCTGGGACAAGAACTTCACCGAGAATGACCTTCTGG TGCGCATTGGCAAGCACTCCCGCACAAGGTACGAGCGAAACATTGAAAAGATATCCATGTTG GAAAAGATCTACATCCACCCCAGGTACAACTGGCGGGAGAACCTGGACCGGGACATTGCCC TGATGAAGCTGAAGAAGCCTGTTGCCTTCAGTGACTACATTCACCCTGTGTGTCTGCCCGAC AGGGAGACGGCAGCCAGCTTGCTCCAGGCTGGATACAAGGGGCGGGTGACAGGCTGGGG CAACCTGAAGGAGACGTGGACAGCCAACGTTGGTAAGGGGCAGCCCAGTGTCCTGCAGGT GGTGAACCTGCCCATTGTGGAGCGGCCGGTCTGCAAGGACTCCACCCGGATCCGCATCAC TGACAACATGTTCTGTGCTGGTTACAAGCCTGATGAAGGGAAACGAGGGGATGCCTGTGAA GGTGACAGTGGGGGACCCTTTGTCATGAAGAGCCCCTTTAACAACCGCTGGTATCAAATGG GCATCGTCTCATGGGGTGAAGGCTGTGACCGGGATGGGAAATATGGCTTCTACACACATGT GTTCCGCCTGAAGAAGTGGATACAGAAGGTCATTGATCAGTTTGGAGAGTAG
Protein Sequence:
MAHVRGLQLPGCLALAALCSLVHSQHVFLAPQQARSLLQRVRRANTFLEEVRKGNLEREC VEETCSYEEAFEALESSTATDVFWAKYTACETARTPRDKLAACLEGNCAEGLGTNYRGHV NITRSGIECQLWRSRYPHKPEINSTTHPGADLQENFCRNPDSSTTGPWCYTTDPTVRRQE CSIPVCGQDQVTVAMTPRSEGSSVNLSPPLEQCVPDRGQQYQGRLAVTTHGLPCLAWASA QAKALSKHQDFNSAVQLVENFCRNPDGDEEGVWCYVAGKPGDFGYCDLNYCEEAVEEETG DGLDEDSDRAIEGRTATSEYQTFFNPRTFGSGEADCGLRPLFEKKSLEDKTERELLESYI DGRIVEGSDAEIGMSPWQVMLFRKSPQELLCGASLISDRWVLTAAHCLLYPPWDKNFTEN DLLVRIGKHSRTRYERNIEKISMLEKIYIHPRYNWRENLDRDIALMKLKKPVAFSDYIHP VCLPDRETAASLLQAGYKGRVTGWGNLKETWTANVGKGQPSVLQVVNLPIVERPVCKDST RIRITDNMFCAGYKPDEGKRGDACEGDSGGPFVMKSPFNNRWYQMGIVSWGEGCDRDGKY GFYTHVFRLKKWIQKVIDQFGE

Coagulation Factor 10 (FX)
DNA Sequence (5’ to 3’):
ATGGGGCGCCCACTGCACCTCGTCCTGCTCAGTGCCTCCCTGGCTGGCCTCCTGCTGCTC GGGGAAAGTCTGTTCATCCGCAGGGAGCAGGCCAACAACATCCTGGCGAGGGTCACGAGG GCCAATTCCTTTCTTGAAGAGATGAAGAAAGGACACCTCGAAAGAGAGTGCATGGAAGAGA CCTGCTCATACGAAGAGGCCCGCGAGGTCTTTGAGGACAGCGACAAGACGAATGAATTCTG GAATAAATACAAAGATGGCGACCAGTGTGAGACCAGTCCTTGCCAGAACCAGGGCAAATGT AAAGACGGCCTCGGGGAATACACCTGCACCTGTTTAGAAGGATTCGAAGGCAAAAACTGTG AATTATTCACACGGAAGCTCTGCAGCCTGGACAACGGGGACTGTGACCAGTTCTGCCACGA GGAACAGAACTCTGTGGTGTGCTCCTGCGCCCGCGGGTACACCCTGGCTGACAACGGCAA GGCCTGCATTCCCACAGGGCCCTACCCCTGTGGGAAACAGACCCTGGAACGCAGGAAGAG GTCAGTGGCCCAGGCCACCAGCAGCAGCGGGGAGGCCCCTGACAGCATCACATGGAAGCC ATATGATGCAGCCGACCTGGACCCCACCGAGAACCCCTTCGACCTGCTTGACTTCAACCAG ACGCAGCCTGAGAGGGGCGACAACAACCTCACCAGGATCGTGGGAGGCCAGGAATGCAAG GACGGGGAGTGTCCCTGGCAGGCCCTGCTCATCAATGAGGAAAACGAGGGTTTCTGTGGT GGAACTATTCTGAGCGAGTTCTACATCCTAACGGCAGCCCACTGTCTCTACCAAGCCAAGAG ATTCAAGGTGAGGGTAGGGGACCGGAACACGGAGCAGGAGGAGGGCGGTGAGGCGGTGC ACGAGGTGGAGGTGGTCATCAAGCACAACCGGTTCACAAAGGAGACCTATGACTTCGACAT CGCCGTGCTCCGGCTCAAGACCCCCATCACCTTCCGCATGAACGTGGCGCCTGCCTGCCTC CCCGAGCGTGACTGGGCCGAGTCCACGCTGATGACGCAGAAGACGGGGATTGTGAGCGGC TTCGGGCGCACCCACGAGAAGGGCCGGCAGTCCACCAGGCTCAAGATGCTGGAGGTGCCC TACGTGGACCGCAACAGCTGCAAGCTGTCCAGCAGCTTCATCATCACCCAGAACATGTTCTG TGCCGGCTACGACACCAAGCAGGAGGATGCCTGCCAGGGGGACAGCGGGGGCCCGCACG TCACCCGCTTCAAGGACACCTACTTCGTGACAGGCATCGTCAGCTGGGGAGAGGGCTGTGC CCGTAAGGGGAAGTACGGGATCTACACCAAGGTCACCGCCTTCCTCAAGTGGATCGACAGG TCCATGAAAACCAGGGGCTTGCCCAAGGCCAAGAGCCATGCCCCGGAGGTCATAACGTCCT CTCCATTAAAGTGA
Protein Sequence:
MGRPLHLVLLSASLAGLLLLGESLFIRREQANNILARVTRANSFLEEMKKGHLERECMEE TCSYEEAREVFEDSDKTNEFWNKYKDGDQCETSPCQNQGKCKDGLGEYTCTCLEGFEGKN CELFTRKLCSLDNGDCDQFCHEEQNSVVCSCARGYTLADNGKACIPTGPYPCGKQTLERR KRSVAQATSSSGEAPDSITWKPYDAADLDPTENPFDLLDFNQTQPERGDNNLTRIVGGQE CKDGECPWQALLINEENEGFCGGTILSEFYILTAAHCLYQAKRFKVRVGDRNTEQEEGGE AVHEVEVVIKHNRFTKETYDFDIAVLRLKTPITFRMNVAPACLPERDWAESTLMTQKTGI VSGFGRTHEKGRQSTRLKMLEVPYVDRNSCKLSSSFIITQNMFCAGYDTKQEDACQGDSG GPHVTRFKDTYFVTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMKTRGLPKAKSHAPEVITSS PLK

Fibroblast Growth Factor 21 (FGF21)
DNA Sequence (5’ to 3’):
ATGGACTCGGACGAGACCGGGTTCGAGCACTCAGGACTGTGGGTTTCTGTGCTGGCTGGTC TGCTGGGAGCCTGCCAGGCACACCCCATCCCTGACTCCAGTCCTCTCCTGCAATTCGGGGG CCAAGTCCGGCAGCGGTACCTCTACACAGATGATGCCCAGCAGACAGAAGCCCACCTGGA GATCAGGGAGGATGGGACGGTGGGGGGCGCTGCTGACCAGAGCCCCGAAAGTCTCCTGCA GCTGAAAGCCTTGAAGCCGGGAGTTATTCAAATCTTGGGAGTCAAGACATCCAGGTTCCTGT GCCAGCGGCCAGATGGGGCCCTGTATGGATCGCTCCACTTTGACCCTGAGGCCTGCAGCTT CCGGGAGCTGCTTCTTGAGGACGGATACAATGTTTACCAGTCCGAAGCCCACGGCCTCCCG CTGCACCTGCCAGGGAACAAGTCCCCACACCGGGACCCTGCACCCCGAGGACCAGCTCGC TTCCTGCCACTACCAGGCCTGCCCCCCGCACTCCCGGAGCCACCCGGAATCCTGGCCCCC CAGCCCCCCGATGTGGGCTCCTCGGACCCTCTGAGCATGGTGGGACCTTCCCAGGGCCGA AGCCCCAGCTACGCTTCCTGA
Protein Sequence:
MDSDETGFEHSGLWVSVLAGLLLGACQAHPIPDSSPLLQFGGQVRQRYLYTDDAQQTEAH LEIREDGTVGGAADQSPESLLQLKALKPGVIQILGVKTSRFLCQRPDGALYGSLHFDPEA CSFRELLLEDGYNVYQSEAHGLPLHLPGNKSPHRDPAPRGPARFLPLPGLPPALPEPPGI LAPQPPDVGSSDPLSMVGPSQGRSPSYAS

Single Chain Variable Fragment R4 (scFvR4)
DNA Sequence (5’ to 3’):
ATGGCGGAAGTGCAGCTGGTGGAAAGCGGCGGCAGCCTGGTGAAACCGGGCGGCAGCCT GCGCCTGAGCTGCGCGGCGAGCGGCTTTACCTTTAGCAACTATAGCATGAACTGGGTGCGC CAGGCGCCGGGCAAAGGCCTGGAATGGATTAGCAGCATTAGCGGCAGCAGCCGCTATATTT ATTATGCGGATTTTGTGAAAGGCCGCTTTACCATTAGCCGCGATAACGCGACCAACAGCCTG TATCTGCAGATGAACAGCCTGCGCGCGGAAGATACCGCGGTGTATTGCGTGCGCAGCAGCA TTACCACCTTTGGCGGCGGCATGGATGTGTGGGGCCGCGGCACCCTGGTGACCGTGAGCA GCGGCGGCGGCGGCAGCGGCGGCGGCGGCAGCGGCGGCGGCGGCAGCCAGAGCGTGCT GACCCAGCCGGCGAGCGTGAGCGGCAGCCCGGGCCAGAGCATTACCATTAGCTGCGCGG GCACCAGCAGCGATGTGGGCGGCTATAACTATGTGAGCTGGTATCAGCAGCATCCGGGCAA AGCGCCGAAACTGATGATTTATGAAGATAGCAAACGCCCGAGCGGCGTGAGCAACCGCTTT AGCGGCAGCAAAAGCGGCAACACCGCGAGCCTGACCATTAGCGGCCTGCAGGCGGAAGAT GAAGCGGATTATTATTGCAGCAGCTATACCACCCGCAGCACCCGCGTGTTTGGCGGCGGCA CCAAACTGGCGGTGCTGGGCGCGGCGGCGGAACAGAAACTGATTAGCGAAGAAGATCTGA ACGGCGCGGCGCATCATCATCATCATCAT
Protein Sequence:
MAEVQLVESGGSLVKPGGSLRLSCAASGFTFSNYSMNWVRQAPGKGLEWISSISGSSRYIYYAD FVKGRFTISRDNATNSLYLQMNSLRAEDTAVYCVRSSITTFGGGMDVWGRGTLVTVSSGGGGS GGGGSGGGGSQSVLTQPASVSGSPGQSITISCAGTSSDVGGYNYVSWYQQHPGKAPKLMIYE DSKRPSGVSNRFSGSKSGNTASLTISGLQAEDEADYYCSSYTTRSTRVFGGGTKLAVLGAAAEQ KLISEEDLNGAAHHHHHH