

Supplementary data for article:**“Modelling intramuscular drug fate *in vitro* with skeletal muscle biomimetic hydrogels”****McCartan *et al.*, 2022.****GFP amino acid sequences**Calculated MW and pI determined with: https://web.expasy.org/compute_pi/

>-30 GFP

MGHHHHHHGG ASKGEELFDG VVPILVELDG DVNGHEFSVR GEGEGDATEG ELTLKFICTT
 GELPVPWPTL VTTLTYGVQC FSDYPDHMDQ HDFFKSAMPE GYVQERTISF KDDGTYKTRA
 EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNFNSHDV YITADKQENG IKAEFEIRHN
 VEDGSVQLAD HYQQNTPIGD GPVLLPDDHY LSTESALSKD PNEDRDHMLV LEFVTAAGID
 HGMDELYK

Calculated molecular weight: 27.79 kDa

pI: 4.64

>+36 GFP

MGHHHHHHGG ASKGERLFRG KVPILVELKG DVNGHKFSVR GKGKGDATRG KLTLKFICTT
 GKLPVPWPTL VTTLTYGVQC FSRYPKHMKR HDFFKSAMPK GYVQERTISF KKDGYKTRA
 EVKFEGRTLTV NRIKLKGRDF KEKGNILGHK LRYNFNSHKV YITADKRKNG IKAKFKIRHN
 VKDGSVQLAD HYQQNTPIGR GPVLLPRNHY LSTRSKLSKD PKEKRDHMLV LEFVTAAGIK
 HGRDERYK

Calculate molecular weight: 28.49 kDa

pI: 10.42

>std GFP

MGHHHHHHGG ASKGEELFTG VVPILVELDG DVNGHKFSVR GKGKGDATNG KLTLKFICTT
 GKLPVPWPTL VTTLTYGVQC FSRYPDHMKQ HDFFKSAMPE GYVQERTISF KDDGTYKTRA
 EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNFNSHNV YITADKQKNG IKANFKIRHN
 VEDGSVQLAD HYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT
 HGMDELYK

Calculated molecular weight: 27.79 kDa

pI: 6.59

BLASTp analysis of human vs. bovine Col1 alpha chains

Sequences taken from: <https://www.uniprot.org/>

Human Col1a1 <https://www.uniprot.org/uniprot/P02452>

Human Col1a2 <https://www.uniprot.org/uniprot/P08123>

Bovine Col1a1 <https://www.uniprot.org/uniprot/P02453>

Bovine Col1a2 <https://www.uniprot.org/uniprot/P02465>

BLASTp (protein BLAST) conducted with:

https://blast.ncbi.nlm.nih.gov/Blast.cgi?PROGRAM=blastp&PAGE_TYPE=BlastSearch&LINK_LOC=blasthome

Table 1. UniProt accession numbers of Col1 alpha chains used for BLASTp analysis

	Human	Bovine
Col1A1	P02452	P02453
Col1A2	P08123	P02465

Table 2. Percentage amino acid sequence homology of bovine *versus* human Col1 alpha chains

	Amino acid sequence homology to human (%)
Col1A1	97.40
Col1A2	92.39