

Sequence of bovine CD5

Q.Yu¹, M.Reichert, T.Brousseau, Y.Cleuter², A.Burny^{1,2*} and R.Kettmann¹

¹Faculty of Agronomy, 5800 Gembloux and ²Department of Molecular Biology, Université Libre de Bruxelles, 67 rue des Chevaux, 1640 Rhode-St-Genèse, Belgium

Submitted July 24, 1990

EMBL accession no. X53061

We have isolated a full-length cDNA clone of the bovine CD5 from a lambda gt10 library constructed from a normal calf thymus, using oligonucleotide probes synthesized on the basis of published human CD5 and murine Ly1 nucleotide sequences (1, 2). The nucleotide sequence of this clone, reported in Fig. 1, consists of 1953 nucleotides containing an open reading frame beginning at position 38 and ending at position 1523. Fig. 2 shows the alignment of the deduced amino acid sequence to its human and murine counterparts.

gaggctgggg	aggctggggc	ggggaggaggc	cggccccatcg	GGGGCTCTACG	ATCTGCCACT	GGCCGCCCTG	70
TACCTTCCTGG	AGCTGCTGGT	CACTTCTCTGC	CTCGGAGGGC	TCAAGGTGGA	GGTGCAGGGG	CTCACCATGA	140
GACTGACGCCG	CTCCGGCTCA	CGCTGCTCAGG	GGCCCTCTGA	GCTCAGAAC	GGCACAGAGT	GGTACCCGGT	210
GCACAGCCAG	AGCTGGGGCC	AGCTTTCTCT	TAACCCAGGTG	GCTCCAGGC	AGTCTTGTAA	CCTCTGCCAG	280
GAGCTGCACT	GGCGGGCAAC	TTTCTTGTACTC	TCTTCTCTCG	CTTACTCTCA	AGAGGTGCAA	TTTCCAGAAT	350
TGATAATCTG	CTATGGACAC	CTGGGATCTC	TCTCCAACTG	CAGCTTCAAC	AGGGGGACGCC	AGGGGGACTC	420
TCTGGCCCTG	ATCTGCTTAG	AGCCACCGAG	GACACACTG	CTTCCCACAGG	CTTCACCGCC	CACACACACT	490
CCGGAGGCCA	CAGCACCTCC	CAGGTTTCAG	CTGGTGGGAG	AGCCCCGGGG	CCTGGGGTGT	GCTGGCGTGG	560
TGGAGTTCTA	CAGTGGTGGC	CTGGGGGCCA	CCATCGGCAT	CGAGCCCCAG	AATGATATCA	AGGACCTGGG	630
GCAACTCATC	TGTCAGGCC	TCCAGCTGG	CTCCCTCCCG	AAAGCCCCTG	CAGACACCGA	GGAAAGCCAG	700
ACACAAAAGC	CAGAAGGCCA	AAAGGCTTTG	CCAACTCTGT	GGGAGATCCA	GAACCCAAAA	TGCACTTCCC	770
TGGAGCAGTG	CTTCGGGAA	GTGCAAGCCC	GGGTGGGTTG	CCAACTCTCT	GGCTCTCATC	CTTGTGATT	840
CCAGGGGGCA	TGTCAGAGCC	GGCTGGTTGG	GGGCAGGCAC	GTGTGGGAG	GCTCTGGGAA	AGTGGCCGAGT	910
GGGGAGGGCC	AGAACGTGGG	CACCTCTATG	GATTCTTCTT	GGGCAAGGG	CAGGGCACCG	CGGGCTGGAG	980
TGTGGGGGA	GCAGCACTGC	GGCAACGTCA	GCTCTTACCG	GGGGCTGGAC	CCCAGGAGA	AGACCTTGGG	1050
GGGCTCTAC	TGTCCCCCGG	GGATACTGTC	CGGGTGCAC	AACTCTGAGG	AGAAAAAGTC	GCACGTGCAAG	1120
AGGGTGTGTTG	TACATGCCA	GAACCTCAGC	CGACGGGGCC	TGGGGGGGGG	GCCGGTGTAG	AGCATTATT	1190
TGGCCCTCTT	GGCTCTGGCG	TGCTGCTCTG	CCCCCTGGCC	TACAAGAACG	TGCTGAAGAA	1260	
ATTCGGGCAAG	AGAACAGCCG	CCACCTGGAT	TGGCCCAAGG	GGATACATGTC	TTTCATCTCC	AGACATCTC	1330
AAACACAGCG	TGACTGTCGG	GTCCCCGGT	GAAGACCCCA	GGCCCTCTCA	CTGGAGGACAC	GAATACATGC	1400
AGCCCTCCAG	GAACCTCCAG	ATCTCAGCTT	ATCCAGCTCT	GGAAAGGGGGC	CTGCACCCCA	TCTCCACCCA	1470
GCCTGATAAC	TCTCTCCGACA	TGTAAGATATGA	GCTCACCGGG	GCTCAGAGGC	TGTAAGagat	ctgtgaccccg	1540
ggaacaataa	ttaagagcca	gactttttat	cccgagaata	ctctgcagtc	accacttgg	tgcccaegtc	1610
cacttcctgc	ccggccagac	aggatggga	cttcccaaca	catccccactg	ccctgcagag	gaaaggctcac	1680
tcggcacatct	cttcacatcc	tcacagccc	aggaaagacc	ccagatggc	teagctggcc	cttcatggg	1750
tggaaagctgt	gaaaaggccg	aggcaagcc	cccccttcet	tctgtgtgg	categctgt	cttcctcagac	1820
tctggccccc	aaaaaggccg	ccacagaaag	ctgcgcactg	gaggggggg	gtggggggg	ggggctgattt	1890
ctctcatgt	tttttaatat	ttttttgt	aaaaatgtt	tttttgttct	gttttttttt	tttttttttt	1953

REFERENCES

Figure 1.

* To whom correspondence should be addressed.

```

  ::::::::::::::::::::: :::::::::::::::::::::
urine BQKKQQWQIVGPTGVNQHNSFHSRSTATVRSQVEPNTASHVDHEYSQPQRSHLSAYPALEGALHRSSTQ

  ::::::::::::::::::::: :::::::::::::::::::::
human DNSSSDSYTDLNGAQRL*
  ::::::::::::::::::::: :::::::::::::::::::::
bovine DNSSSDSYTDLNGAQRL*
  ::::::::::::::::::::: :::::::::::::::::::::
urine DNSSSDSYTDLQVAQRL*

```

Figure 2.