

Table S1. List of identified common genes associated with muscle organ development (*Panther*).

No.	Gene symbol	Gene name (GenBank Accession Number)	LIM vs. HF	HER vs. HF
			FC	FC
1	<i>cdh13</i>	Bos taurus cadherin 13, H-cadherin (heart) (CDH13), mRNA [NM_001035277]	22,47	10,56
2	<i>myl2</i>	Bos taurus myosin, light chain 2, regulatory, cardiac, slow (MYL2), mRNA [NM_001035025]	15,10	8,60
3	<i>cdh15</i>	Bos taurus cadherin 15, type 1, M-cadherin (myotubule) (CDH15), mRNA [NM_001102066]	5,90	4,56
4	<i>myf5</i>	Bos taurus myogenic factor 5 (MYF5), mRNA [NM_174116]	5,32	2,61
5	<i>tpm1</i>	Bos taurus tropomyosin 1 (alpha) (TPM1), mRNA [NM_001013590]	4,87	4,38
6	<i>cdh1</i>	Bos taurus cadherin 1, type 1, E-cadherin (epithelial) (CDH1), mRNA. [Source:RefSeq mRNA;Acc:NM_001002763] [ENSBTAT00000021272]	4,32	3,91
7	<i>myog</i>	Bos taurus myogenin (myogenic factor 4) (MYOG), mRNA [NM_001111325]	4,11	4,19
8	<i>myl9</i>	Bos taurus myosin, light chain 9, regulatory (MYL9), mRNA [NM_001075234]	2,09	2,18
9	<i>palld</i>	Bos taurus palladin, cytoskeletal associated protein, mRNA (cDNA clone IMAGE:8120568), partial cds. [BC104593]	1,98	1,73
10	<i>pitx3</i>	Bos taurus paired-like homeodomain 3 (PITX3), mRNA [NM_001192305]	-5,03	-2,01
11	<i>phox2a</i>	Bos taurus paired-like homeobox 2a (PHOX2A), mRNA [NM_001192157]	-4,30	-1,84
12	<i>pcdh1</i>	Bos taurus protocadherin 1 (PCDH1), mRNA [NM_001083655]	-3,53	-1,91
13	<i>nkx2-8</i>	Bos taurus NK2 homeobox 8 (NKX2-8), mRNA [NM_001192163]	-3,49	-1,73
14	<i>csrp2</i>	Bos taurus cysteine and glycine-rich protein 2 (CSRP2), mRNA [NM_001038183]	-2,59	-2,34
15	<i>cdh26</i>	PREDICTED: Bos taurus cadherin 26 (CDH26), mRNA [XM_869285]	-2,19	-2,08
16	<i>hmx3</i>	H6 family homeobox 3 [Source:HGNC Symbol;Acc:5019] [ENSBTAT00000045429]	-1,90	-1,55
17	<i>zfhx3</i>	zinc finger homeobox 3 [Source:HGNC Symbol;Acc:777] [ENSBTAT00000019489]	-1,88	-1,92
18	<i>nkx3-2</i>	Bos taurus NK3 homeobox 2 (NKX3-2), mRNA [NM_001193133]	-1,85	-1,49
19	<i>pax1</i>	paired box 1 [Source:HGNC Symbol;Acc:8615] [ENSBTAT00000008861]	-1,67	-1,45
20	<i>cdh23</i>	Bos taurus cadherin-related 23 (CDH23), mRNA [NM_001191206]	-1,58	-2,40
21	<i>cdhr5</i>	Bos taurus cadherin-related family member 5 (CDHR5), mRNA [NM_001103326]	-1,46	-1,38

¹ FC ≥ 1.3 ; $p \leq 0.05$; $n = 4$ for each breed. FC-fold change; LIM-Limousin; HER-Hereford; HF-Holstein-Friesian.