### Additional file 10 – Overlap between CNVs within specific CNVRs associated with IBH in Friesian horses and CNV(R)s already published in literature

Overlap between CNVs within specific CNVRs associated with IBH (n = 19) and CNV(R)s already published in literature. CNVR identification, chromosome (ECA), start and end position (in bp) and size (in bp) of the CNVR is presented. It is indicated how the CNVR in Friesian horses overlapped with the CNV(R)s already published in literature (classification) and how great the overlap of the CNVR in Friesian horses was with literature (in percentage and bp).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CNVR ID | ECA | Start | End | Size | Classification1 | Overlap, %2 | Overlap, bp |
| CNVR\_1144\_1 | 4 | 23,383,774 | 23,505,444 | 121,671 | Encompassc,d,f,g | 100.0% | 121,671 |
| CNVR\_1296\_1 | 4 | 79,687,222 | 79,957,793 | 270,572 | Encompassf | 100.0% | 270,572 |
| CNVR\_2035\_1 | 8 | 3,638,239 | 3,783,874 | 145,636 | Encompassa,b,c,d,f,g,h  Downstreame | 100.0%  32.8% | 145,636  47,729 |
| CNVR\_2452\_1 | 10 | 12,948,489 | 13,075,518 | 127,030 | Encompassa,b,c,d,g,h | 100.0% | 127,030 |
| CNVR\_2685\_1 | 11 | 41,743,465 | 41,832,225 | 88,761 | Encompassa,b,c,f,g,h  Downstreamh | 100.0%  0.9% | 88,761  770 |
| CNVR\_2758\_1 | 12 | 19,366,263 | 19,527,441 | 161,179 | Encompassa,b,c,d,e,f,h  Upstreame | 100.0%  0.6% | 161,179  924 |
| CNVR\_2979\_1 | 14 | 64,375,388 | 64,516,633 | 141,246 | Encompassa,c,f,g | 100.0% | 141,246 |
| CNVR\_4066 | 20 | 20,271 | 503,862 | 483,592 | Novel CNVR |  |  |
| CNVR\_4114\_1 | 20 | 24,230,088 | 24,296,409 | 66,322 | Encompassa,c,d,e,f,h  Insidee,h  Downstreame,h | 100.0%  2.1%h  12.4%h  12.7%h  53.1%e  64.3%e  67.0%h  94.2%h | 66,322  1,401  8,201  8,439  35,186  42,632  44,419  62,456 |
| CNVR\_4120\_1 | 20 | 26,392,472 | 26,531,248 | 138,777 | Encompassa,b,c,d,f,h  Insidee,h  Upstreame | 100.0%  1.0%h  1.3%h  33.7%h  37.1%e  38.6%e  51.6%h  65.0%e  87.5%h  82.1%  88.0% | 138,777  1,401  1,751  46,700  51,512  53,626  71,635  90,197  121,484  113,946  122,098 |
| CNVR\_4132\_1 | 20 | 29,805,544 | 29,821,078 | 15,535 | Novel CNVR |  |  |
| CNVR\_4140\_1 | 20 | 30,493,889 | 30,523,455 | 29,567 | Encompassa,b,d,e,g,h  Insidef  Upstreame | 100.0%  2.9%  97.1% | 29,567  860  28,709 |
| CNVR\_4141\_1 | 20 | 30,624,048 | 30,689,273 | 65,226 | Encompassa,b,d,f,g,h  Insideh  Upstreamh | 100.0%  38.6%  29.0% | 65,226  25,160  18,904 |
| CNVR\_4142\_1 | 20 | 30,743,179 | 30,775,429 | 32,251 | Encompassa,b,d,f,g,h | 100.0% | 32,251 |
| CNVR\_4155\_1 | 20 | 32,467,872 | 32,582,288 | 114,417 | Encompassf  Upstreama,b,c,d,g,h | 100.0%  98.2% | 114,417  112,330 |
| CNVR\_4271\_1 | 21 | 10,784,937 | 10,861,217 | 76,281 | Downstreama,b | 50.2% | 38,274 |
| CNVR\_4537 | 23 | 32,331,580 | 32,716,916 | 385,337 | Encompassg,h | 100.0% | 385,337 |
| CNVR\_4747\_1 | 26 | 250,337 | 434,632 | 184,296 | Encompassf  Insideh  Upstreamc,h | 100.0%  1.8%  8.6%  6.8%h  8.6%h  58.4%c,h | 184,296  3,401  15,903  12,503  15,903  107,621 |
| CNVR\_4992\_1 | 28 | 4,428 | 376,070 | 371,643 | Encompassb,g,h  Inside  Upstreamh  Downstreamh | 100.0%  0.5%h  0.9%h  6.7%h  25.9%e  74.6%  16.4%  24.5% | 371,643  1,751  3,451  24,898  96,427  277,430  61,010  91,107 |

1Encompass = CNVR in Friesian horses is fully captured by the region presented in literature, inside = the region presented in literature is fully captured by the CNVR in Friesian horses, upstream = CNVR in Friesian horses starts upstream of the region presented in literature and ends upstream of the region presented in literature, downstream = CNVR in Friesian horses starts downstream of the region presented in literature and ends downstream of the region presented in literature. Reference to literature: aDoan and colleagues [3]; bDoan and colleagues [4]; cDupuis and colleagues [5]; dGhosh and colleagues [6]; eGhosh and colleagues [7]; fMcQueen and colleagues [8]; gMetzger and colleagues [9]; hWang and colleagues [11].

2The percentage of CNVR in Friesian horses that overlaps with the region presented in literature.