

Table 1. WGS IGV links for USMARC Beef Cattle Diversity Panel v2.9 by breed.

Breed	USMARC animal ID	Public links	Estimated ^a mapped read coverage	GB >Q20 ^b	.bam file
Angus	19879801	View in IGV	12.7	51.4	7686214420
Angus	19939802	View in IGV	10.3	41.7	7686214358
Angus	19999821	View in IGV	10.7	43.4	7686214435
Angus	19999822	View in IGV	11.0	44.8	7686214444
Angus	19999823	View in IGV	11.4	46.3	7686214359
Angus	19999825	View in IGV	11.0	44.6	7686214446
Angus, 6 genomes:		View Angus in IGV			
Beefmaster	19999925	View in IGV	19.4	78.8	7686214378
Beefmaster	19999926	View in IGV	10.5	42.6	7686214370
Beefmaster	19999927	View in IGV	27.0	109.4	7686214411
Beefmaster	19999928	View in IGV	13.2	53.7	7686214387
Beefmaster	19999929	View in IGV	11.0	44.8	7686214404
Beefmaster, 5 genomes:		View Beefmaster in IGV			
Brahman	19919842	View in IGV	19.6	79.7	7686214421
Brahman	19999811	View in IGV	19.6	79.4	7686214445
Brahman	19999812	View in IGV	10.0	40.6	7686214367
Brahman	19999813	View in IGV	12.6	51.2	7686214429
Brahman	19999819	View in IGV	12.1	49.2	7686214392
Brahman, 5 genomes:		View Brahman in IGV			
Brangus	19999909	View in IGV	11.9	48.4	7686214440
Brangus	19999910	View in IGV	11.8	48.1	7686214380
Brangus	19999911	View in IGV	20.9	84.9	7686214389
Brangus	19999912	View in IGV	10.6	42.9	7686214364
Brangus	19999913	View in IGV	10.5	42.7	7686214390
Brangus, 5 genomes:		View Brangus in IGV			
Braunvieh	19220065	View in IGV	10.6	43.2	7686214363
Braunvieh	19220072	View in IGV	10.9	44.1	7686214437
Braunvieh	19220079	View in IGV	11.3	46.0	7686214366
Braunvieh	19220086	View in IGV	10.6	42.8	7686214448
Braunvieh, 4 genomes		View Braunvieh in IGV			
Charolais	19939808	View in IGV	9.9	40.2	7686215631
Charolais	19969825	View in IGV	10.0	40.8	7686214369
Charolais	19989916	View in IGV	12.3	49.9	7686215629
Charolais	19989919	View in IGV	16.8	68.3	7686214374
Charolais	19999851	View in IGV	10.1	40.8	7686214415
Charolais	19999852	View in IGV	11.7	47.6	7686214433
Charolais, 6 genomes		View Charolais in IGV			
Chianina	19999914	View in IGV	9.9	40.2	7686214386
Chianina	19999918	View in IGV	10.0	40.4	7686214360
Chianina	19999923	View in IGV	10.7	43.5	7686214422
Chianina	19999924	View in IGV	13.2	53.4	7686214381
Chianina, 4 genomes		View Chianina in IGV			

Corriente	19202900	View in IGV	11.3	46.1	7686214362
Corriente	19202901	View in IGV	10.1	41.1	7686214407
Corriente	19202902	View in IGV	12.9	52.4	7686214430
Corriente	19202903	View in IGV	10.5	42.7	7686214397
Corriente, 4 genomes		View Corriente in IGV			
Gelbvieh	19929826	View in IGV	12.5	50.8	7686214443
Gelbvieh	19989876	View in IGV	10.5	42.5	7686214447
Gelbvieh	19999863	View in IGV	19.2	78.1	7686214399
Gelbvieh	19999864	View in IGV	10.2	41.2	7686214398
Gelbvieh	19999865	View in IGV	12.5	50.7	7686215632
Gelbvieh	19999866	View in IGV	10.2	41.5	7686214449
Gelbvieh, 6 genomes		View Gelbvieh in IGV			
Hereford	19969811	View in IGV	11.7	47.5	7686214409
Hereford	19969812	View in IGV	14.3	58.2	7686214382
Hereford	19989837	View in IGV	14.3	58.1	7686214427
Hereford	19999828	View in IGV	10.1	41.2	7686214385
Hereford	19999829	View in IGV	10.8	44.0	7686214376
Hereford	20049808	View in IGV	10.2	41.3	7686214412
Hereford, 6 genomes		View Hereford in IGV			
Limousin	19989863	View in IGV	10.7	43.4	7686214416
Limousin	19999833	View in IGV	11.9	48.2	7686214438
Limousin	19999834	View in IGV	10.6	43.2	7686214442
Limousin	19999835	View in IGV	11.5	46.8	7686214375
Limousin	19999837	View in IGV	11.2	45.7	7686214393
Limousin	19999838	View in IGV	10.4	42.4	7686214391
Limousin, 6 genomes		View Limousin in IGV			
Maine-Anjou	19999900	View in IGV	10.3	41.8	7686214426
Maine-Anjou	19999901	View in IGV	11.2	45.6	7686214377
Maine-Anjou	19999902	View in IGV	9.9	40.3	7686214418
Maine-Anjou	19999903	View in IGV	10.0	40.7	7686214388
Maine-Anjou	19999904	View in IGV	10.4	42.4	7686214373
Maine-Anjou, 5 genomes		View Maine Anjou in IGV			
Red Angus	19979802	View in IGV	9.9	40.3	7686215630
Red Angus	19999855	View in IGV	10.2	41.5	7686214434
Red Angus	19999856	View in IGV	10.3	41.9	7686214432
Red Angus	19999857	View in IGV	15.1	61.2	7686214383
Red Angus	19999859	View in IGV	10.0	40.5	7686214384
Red Angus	19999860	View in IGV	10.1	40.9	7686214402
Red Angus, 6 genomes		View Red Angus in IGV			
Salers	19999874	View in IGV	10.3	41.8	7686214400
Salers	19999875	View in IGV	10.3	41.7	7686214436
Salers	19999876	View in IGV	10.3	41.8	7686214405
Salers	19999880	View in IGV	12.2	49.6	7686214424
Salers	19999882	View in IGV	10.6	43.1	7686214371
Salers, 5 genomes		View Salers in IGV			
Santa Gertrudis	19999905	View in IGV	20.3	82.5	7686214361

Santa Gertrudis	19999906	View in IGV	10.5	42.7	7686214419
Santa Gertrudis	19999907	View in IGV	10.8	43.7	7686214396
Santa Gertrudis	19999908	View in IGV	11.0	44.7	7686214417
Santa Gertrudis, 4 genomes		View Santa Gertrudis in IGV			
Shorthorn	19999891	View in IGV	10.4	42.2	7686214423
Shorthorn	19999892	View in IGV	10.1	41.0	7686214365
Shorthorn	19999893	View in IGV	10.1	40.9	7686214428
Shorthorn	19999894	View in IGV	10.1	41.2	7686214413
Shorthorn	19999895	View in IGV	11.1	45.2	7686214394
Shorthorn, 5 genomes		View Shorthorn in IGV			
Simmental	19929810	View in IGV	16.3	66.4	7686214439
Simmental	19999842	View in IGV	11.8	48.1	7686214379
Simmental	19999843	View in IGV	12.6	51.1	7686214372
Simmental	19999846	View in IGV	13.4	54.3	7686214401
Simmental	19999847	View in IGV	12.2	49.5	7686214395
Simmental	19999848	View in IGV	9.9	40.2	7686214406
Simmental, 6 genomes		View Simmental in IGV			
Tarentaise	19293032	View in IGV	10.1	40.9	7686214368
Tarentaise	19293033	View in IGV	11.8	47.7	7686214408
Tarentaise	19293034	View in IGV	11.9	48.1	7686214414
Tarentaise	19293035	View in IGV	10.8	43.8	7686214410
Tarentaise, 4 genomes		View Tarentaise in IGV			
Texas Longhorn	19999870	View in IGV	10.5	42.8	7686214403
Texas Longhorn	19999871	View in IGV	10.2	41.4	7686214425
Texas Longhorn	19999872	View in IGV	10.0	40.6	7686214431
Texas Longhorn	19999873	View in IGV	10.2	41.4	7686214441
Texas Longhorn, 4 genomes		View Texas Longhorn in IGV			

Total 1141.0 4632.6

Average 11.9 48.3

^aCitation: Heaton MP, Smith TPL, Carnahan JK, Basnayake V, Qiu J, Simpson B, Kalbfleisch TS. **Using diverse U.S. beef cattle genomes to identify missense mutations in *EPAS1*, a gene associated with high-altitude pulmonary hypertension.** F1000Research 2016, 5:2003.

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^bTotal gigabases of genomic sequence with a quality score greater than or equal to 20. Tru-Seq paired-end libraries were sequenced with NextSeq500 high-output kits (300 cycles, Illumina Inc. San Diego CA).

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