

Mapping (STAR-SE) of total-RNAseq on cow genome (ARS-UCD1.2)

id_sample	tissue	animal	European Nucleotide Archive	European Nucleotide Archive	Nb of reads	Nb of reads uniquely mapped	%						
2954	Adrenal gland	Neonate male (SAMEA8132948)	SAMEA8132954	ERR7012699	79628028	70934825	89,08			117T	63T		HCA-40 samples HCA-96 samples
2955	Cerebellum	Neonate male (SAMEA8132948)	SAMEA8132955	ERR7012704	85942406	77670742	90,38			117T	63T		HCA-40 samples HCA-96 samples
2956	BRAIN-cortex	Neonate male (SAMEA8132948)	SAMEA8132956	ERR7012705	87063626	77818220	89,38			117T			HCA-40 samples HCA-96 samples
2957	Colon	Neonate male (SAMEA8132948)	SAMEA8132957	ERR7012726	89932594	79873177	88,81			117T	63T		HCA-40 samples HCA-96 samples
2958	Duodenum	Neonate male (SAMEA8132948)	SAMEA8132958	ERR7012727	42009778	37244698	88,66			117T	63T		HCA-40 samples HCA-96 samples
2959	Heart	Neonate male (SAMEA8132948)	SAMEA8132959	ERR7012720	91106522	65132390	71,49			117T	63T		HCA-40 samples HCA-96 samples
2960	Hypothalamus	Neonate male (SAMEA8132948)	SAMEA8132960	ERR7012706	87903972	77912304	88,63			117T			HCA-40 samples HCA-96 samples
2961	Ileum	Neonate male (SAMEA8132948)	SAMEA8132961	ERR7012728	93645274	83358429	89,02			117T			HCA-40 samples HCA-96 samples
2962	Jejunum	Neonate male (SAMEA8132948)	SAMEA8132962	ERR7012729	80676212	71420612	88,53			117T			HCA-40 samples HCA-96 samples
2963	Kidney	Neonate male (SAMEA8132948)	SAMEA8132963	ERR7012749	87523812	78900237	90,15			117T	63T		HCA-40 samples HCA-96 samples
2964	Liver	Neonate male (SAMEA8132948)	SAMEA8132964	ERR7012754	82985526	72915807	87,87			117T	63T		HCA-40 samples HCA-96 samples
2965	Lung	Neonate male (SAMEA8132948)	SAMEA8132965	ERR7012760	88148150	79233332	89,89			117T	63T		HCA-40 samples HCA-96 samples
2966	Lymph-node	Neonate male (SAMEA8132948)	SAMEA8132966	ERR7012765	83762510	69724142	83,24			117T			HCA-40 samples HCA-96 samples
2967	Pancreas	Neonate male (SAMEA8132948)	SAMEA8132967	ERR7012771	467772910	410017534	87,65	XL sequencing		117T			HCA-40 samples HCA-96 samples
2968	PG (pituitary gland)	Neonate male (SAMEA8132948)	SAMEA8132968	ERR7012773	110101990	98829522	89,76			117T	63T		HCA-40 samples HCA-96 samples
2969	Rumen	Neonate male (SAMEA8132948)	SAMEA8132969	ERR7012779	520323428	395267243	75,97	XL sequencing		117T			HCA-40 samples HCA-96 samples
2970	skeletal-muscle	Neonate male (SAMEA8132948)	SAMEA8132970	ERR7012781	89060840	74543651	83,7			117T	63T		HCA-40 samples HCA-96 samples
2971	Spleen	Neonate male (SAMEA8132948)	SAMEA8132971	ERR7012797	89574174	76143946	85,01			117T	63T		HCA-40 samples HCA-96 samples
2972	Subcutaneous-fat	Neonate male (SAMEA8132948)	SAMEA8132972	ERR7012693	89264660	80493793	90,17			117T			HCA-40 samples HCA-96 samples
2973	Testis	Neonate male (SAMEA8132948)	SAMEA8132973	ERR7012789	98679076	87473232	88,64			117T			
2974	Thyroid-gland	Neonate male (SAMEA8132948)	SAMEA8132974	ERR7012791	83607908	71409982	85,41			117T			HCA-40 samples HCA-96 samples
2975	Adrenal gland	Neonate female (SAMEA8132949)	SAMEA8132975	ERR7012700	86410356	77028333	89,14			117T	63T		HCA-40 samples HCA-96 samples
2976	Cerebellum	Neonate female (SAMEA8132949)	SAMEA8132976	ERR7012707	86566138	78528001	90,71			117T	63T		HCA-40 samples HCA-96 samples
2977	BRAIN-cortex	Neonate female (SAMEA8132949)	SAMEA8132977	ERR7012708	87864264	77389899	88,08			117T			HCA-40 samples HCA-96 samples
2978	Colon	Neonate female (SAMEA8132949)	SAMEA8132978	ERR7012798	90909866	80327438	88,36			117T	63T		HCA-40 samples HCA-96 samples
2979	Duodenum	Neonate female (SAMEA8132949)	SAMEA8132979	ERR7012730	95596528	84845371	88,75			117T	63T		HCA-40 samples HCA-96 samples
2980	Heart	Neonate female (SAMEA8132949)	SAMEA8132980	ERR7012721	95375098	85223211	89,36			117T	63T		HCA-40 samples HCA-96 samples
2981	Hypothalamus	Neonate female (SAMEA8132949)	SAMEA8132981	ERR7012709	91110278	81512349	89,47			117T			HCA-40 samples HCA-96 samples
2982	Ileum	Neonate female (SAMEA8132949)	SAMEA8132982	ERR7012731	94907450	84697812	89,24			117T			HCA-40 samples HCA-96 samples
2983	Jejunum	Neonate female (SAMEA8132949)	SAMEA8132983	ERR7012732	482170674	432386777	89,68	XL sequencing		117T			HCA-40 samples HCA-96 samples
2984	Kidney	Neonate female (SAMEA8132949)	SAMEA8132984	ERR7012809	70218640	64193968	91,42			117T	63T		HCA-40 samples HCA-96 samples
2985	Liver	Neonate female (SAMEA8132949)	SAMEA8132985	ERR7012755	84012592	73298258	87,25			117T	63T		HCA-40 samples HCA-96 samples
2986	Lung	Neonate female (SAMEA8132949)	SAMEA8132986	ERR7012810	79588534	72333798	90,88			117T	63T		HCA-40 samples HCA-96 samples
2987	Lymph-node	Neonate female (SAMEA8132949)	SAMEA8132987	ERR7012799	88872730	80092589	90,12			117T			HCA-40 samples HCA-96 samples
2988	Mammary-gland	Neonate female (SAMEA8132949)	SAMEA8132988	ERR7012718	91397576	80152837	87,7			117T			
2989	Ovary	Neonate female (SAMEA8132949)	SAMEA8132989	ERR7012770	96354086	66997059	69,53			117T			
2990	Pancreas	Neonate female (SAMEA8132949)	SAMEA8132990	ERR7012772	83003132	74003629	89,16			117T			HCA-40 samples HCA-96 samples
2991	PG (pituitary gland)	Neonate female (SAMEA8132949)	SAMEA8132991	ERR7012774	88358428	79075635	89,49			117T	63T		HCA-40 samples HCA-96 samples
2992	Rumen	Neonate female (SAMEA8132949)	SAMEA8132992	ERR7012780	92133958	79472220	86,26			117T			HCA-40 samples HCA-96 samples
2993	skeletal-muscle	Neonate female (SAMEA8132949)	SAMEA8132993	ERR7012782	90135408	78938607	87,58			117T	63T		HCA-40 samples HCA-96 samples
2994	Spleen	Neonate female (SAMEA8132949)	SAMEA8132994	ERR7012800	89543706	61793010	69,01			117T	63T		HCA-40 samples HCA-96 samples
2995	Subcutaneous-fat	Neonate female (SAMEA8132949)	SAMEA8132995	ERR7012694	90857272	68605344	75,51			117T			HCA-40 samples HCA-96 samples
2996	Thyroid-gland	Neonate female (SAMEA8132949)	SAMEA8132996	ERR7012792	88420656	78698120	89			117T			HCA-40 samples HCA-96 samples
2997	Uterus	Neonate female (SAMEA8132949)	SAMEA8132997	ERR7012719	94154774	59343180	63,03			117T			
2999	Cerebellum	Juvenile female (SAMEA8132950)	SAMEA8132999	ERR7012710	76841404	68658209	89,35			117T	63T	HCA-56 samples	

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id_sample	tissue	animal	European Nucleotide Archive	European Nucleotide Archive	Nb of reads	Nb of reads uniquely mapped	%						
3001	Colon	Juvenile female (SAMEA8132950)	SAMEA8133001	ERR7012733	80064678	68770549	85,89		117T	63T	HCA-56 samples		HCA-96 samples
3002	Duodenum	Juvenile female (SAMEA8132950)	SAMEA8133002	ERR7012734	83283724	73416003	88,15		117T	63T	HCA-56 samples		HCA-96 samples
3003	Heart	Juvenile female (SAMEA8132950)	SAMEA8133003	ERR7012722	89347636	78582638	87,95		117T	63T	HCA-56 samples		HCA-96 samples
3004	Ileum	Juvenile female (SAMEA8132950)	SAMEA8133004	ERR7012735	86209948	77297437	89,66		117T		HCA-56 samples		HCA-96 samples
3005	Jejunum	Juvenile female (SAMEA8132950)	SAMEA8133005	ERR7012736	73204126	64147776	87,63		117T		HCA-56 samples		HCA-96 samples
3006	Kidney	Juvenile female (SAMEA8132950)	SAMEA8133006	ERR7012750	71319718	64729230	90,76		117T	63T	HCA-56 samples		HCA-96 samples
3007	Liver	Juvenile female (SAMEA8132950)	SAMEA8133007	ERR7012756	71032730	63951009	90,03		117T	63T	HCA-56 samples		HCA-96 samples
3008	Lung	Juvenile female (SAMEA8132950)	SAMEA8133008	ERR7012761	78744198	68879742	87,47		117T	63T	HCA-56 samples		HCA-96 samples
3009	TB-Lymph	Juvenile female (SAMEA8132950)	SAMEA8133009	ERR7012766	74601144	66297657	88,87		117T				
3010	Mammary-gland	Juvenile female (SAMEA8132950)	SAMEA8133010	ERR7012753	87556912	77395603	88,39		117T				
3011	Ovary	Juvenile female (SAMEA8132950)	SAMEA8133011	ERR7012801	91652796	62843633	68,57		117T				
3013	PG (pituitary gland)	Juvenile female (SAMEA8132950)	SAMEA8133013	ERR7012775	48104142	40585361	84,37		117T	63T	HCA-56 samples		HCA-96 samples
3014	Rumen	Juvenile female (SAMEA8132950)	SAMEA8133014	ERR7012802	90160036	60014021	66,56		117T		HCA-56 samples		HCA-96 samples
3015	skeletal-muscle	Juvenile female (SAMEA8132950)	SAMEA8133015	ERR7012783	117205362	97633491	83,3		117T	63T	HCA-56 samples		HCA-96 samples
3016	Spleen	Juvenile female (SAMEA8132950)	SAMEA8133016	ERR7012803	87899874	77321272	87,97		117T	63T	HCA-56 samples		HCA-96 samples
3017	Subcutaneous-fat	Juvenile female (SAMEA8132950)	SAMEA8133017	ERR7012695	85027890	73940034	86,96		117T		HCA-56 samples		HCA-96 samples
3019	Uterine-horn	Juvenile female (SAMEA8132950)	SAMEA8133019	ERR7012795	82051346	70811541	86,3		117T				
3020	Adrenal gland	Juvenile castrated male (SAMEA8132951)	SAMEA8133020	ERR7012701	111949212	100319939	89,61		117T	63T	HCA-56 samples		HCA-96 samples
3021	Cerebellum	Juvenile castrated male (SAMEA8132951)	SAMEA8133021	ERR7012712	94788240	81971767	86,48		117T	63T	HCA-56 samples		HCA-96 samples
3022	BRAIN-cortex	Juvenile castrated male (SAMEA8132951)	SAMEA8133022	ERR7012713	94341896	82028517	86,95		117T				
3022bis	BRAIN-cortex	Juvenile castrated male (SAMEA8132951)	SAMEA8133022	ERR7012711	81755296	73534627	89,94	second sequencing	117T				
3023	Colon	Juvenile castrated male (SAMEA8132951)	SAMEA8133023	ERR7012737	101971886	88448702	86,74		117T	63T	HCA-56 samples		HCA-96 samples
3024	Duodenum	Juvenile castrated male (SAMEA8132951)	SAMEA8133024	ERR7012738	108533614	91366991	84,18		117T	63T	HCA-56 samples		HCA-96 samples
3025	Heart	Juvenile castrated male (SAMEA8132951)	SAMEA8133025	ERR7012723	94486324	82873490	87,71		117T	63T	HCA-56 samples		HCA-96 samples
3026	Ileum	Juvenile castrated male (SAMEA8132951)	SAMEA8133026	ERR7012739	84819128	75834458	89,41		117T		HCA-56 samples		HCA-96 samples
3028	Kidney	Juvenile castrated male (SAMEA8132951)	SAMEA8133028	ERR7012751	93431602	84134122	90,05		117T	63T	HCA-56 samples		HCA-96 samples
3029	Liver	Juvenile castrated male (SAMEA8132951)	SAMEA8133029	ERR7012757	87435710	77355343	88,47		117T	63T	HCA-56 samples		HCA-96 samples
3030	Lung	Juvenile castrated male (SAMEA8132951)	SAMEA8133030	ERR7012762	83468586	74073528	88,74		117T	63T	HCA-56 samples		HCA-96 samples
3031	TB-Lymph	Juvenile castrated male (SAMEA8132951)	SAMEA8133031	ERR7012767	79112174	71296724	90,12		117T				
3033	PG (pituitary gland)	Juvenile castrated male (SAMEA8132951)	SAMEA8133033	ERR7012776	86631114	77305592	89,24		117T	63T	HCA-56 samples		HCA-96 samples
3034	Rumen	Juvenile castrated male (SAMEA8132951)	SAMEA8133034	ERR7012804	88653232	75058550	84,67		117T		HCA-56 samples		HCA-96 samples
3035	skeletal-muscle	Juvenile castrated male (SAMEA8132951)	SAMEA8133035	ERR7012784	112822722	95807788	84,92		117T	63T	HCA-56 samples		HCA-96 samples
3036	Spleen	Juvenile castrated male (SAMEA8132951)	SAMEA8133036	ERR7012805	88409438	77727533	87,92		117T	63T	HCA-56 samples		HCA-96 samples
3037	Subcutaneous-fat	Juvenile castrated male (SAMEA8132951)	SAMEA8133037	ERR7012696	138705580	118066978	85,12		117T		HCA-56 samples		HCA-96 samples
3039	Adrenal gland	Adult female (SAMEA8132952)	SAMEA8133039	ERR7012702	88478466	77145647	87,19		117T	63T	HCA-56 samples		HCA-96 samples
3040	Hippocampus	Adult female (SAMEA8132952)	SAMEA8133040	ERR7012714	124491886	106986246	85,94		117T				
3041	Brain-cortex	Adult female (SAMEA8132952)	SAMEA8133041	ERR7012715	87380412	76036619	87,02		117T				
3042	Colon	Adult female (SAMEA8132952)	SAMEA8133042	ERR7012741	93076118	81665971	87,74		117T	63T	HCA-56 samples		HCA-96 samples
3043	Duodenum	Adult female (SAMEA8132952)	SAMEA8133043	ERR7012742	89849884	77348731	86,09		117T	63T	HCA-56 samples		HCA-96 samples
3044	Heart	Adult female (SAMEA8132952)	SAMEA8133044	ERR7012724	77015710	67201167	87,26		117T	63T	HCA-56 samples		HCA-96 samples
3046	Ileum	Adult female (SAMEA8132952)	SAMEA8133046	ERR7012743	83899276	74374111	88,65		117T		HCA-56 samples		HCA-96 samples
3047	Jejunum	Adult female (SAMEA8132952)	SAMEA8133047	ERR7012744	92312668	80601677	87,31		117T		HCA-56 samples		HCA-96 samples
3049	Liver	Adult female (SAMEA8132952)	SAMEA8133049	ERR7012758	88456012	77867419	88,03		117T	63T	HCA-56 samples		HCA-96 samples
3050	Lung	Adult female (SAMEA8132952)	SAMEA8133050	ERR7012763	87757474	74691272	85,11		117T	63T	HCA-56 samples		HCA-96 samples
3051	Lymph-node	Adult female (SAMEA8132952)	SAMEA8133051	ERR7012768	84543032	71828031	84,96		117T				

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3053	Ovary	Adult female (SAMEA8132952)	SAMEA8133053	ERR7012806	82098416	66992277	81,6		117T				
3055	PG (pituitary gland)	Adult female (SAMEA8132952)	SAMEA8133055	ERR7012777	127359048	112798233	88,57		117T	63T	HCA-56 samples		HCA-96 samples
3056	Rumen	Adult female (SAMEA8132952)	SAMEA8133056	ERR7012807	89855188	74811015	83,26		117T		HCA-56 samples		HCA-96 samples
3057	skeletal-muscle	Adult female (SAMEA8132952)	SAMEA8133057	ERR7012785	88058792	75773627	86,05		117T	63T	HCA-56 samples		HCA-96 samples
3058	Spleen	Adult female (SAMEA8132952)	SAMEA8133058	ERR7012787	84242648	73721164	87,51		117T	63T	HCA-56 samples		HCA-96 samples
3059	Subcutaneous-fat	Adult female (SAMEA8132952)	SAMEA8133059	ERR7012697	146804278	129731486	88,37		117T		HCA-56 samples		HCA-96 samples
3060	Thyroid-gland	Adult female (SAMEA8132952)	SAMEA8133060	ERR7012793	96678384	76136757	78,75		117T				
3061	Uterus	Adult female (SAMEA8132952)	SAMEA8133061	ERR7012796	91294768	72631743	79,56		117T				
3062	Adrenal gland	Adult male (SAMEA8132953)	SAMEA8133062	ERR7012703	91669494	79093152	86,28		117T	63T	HCA-56 samples		HCA-96 samples
3063	Cerebellum	Adult male (SAMEA8132953)	SAMEA8133063	ERR7012716	83308540	74049732	88,89		117T	63T	HCA-56 samples		HCA-96 samples
3065	Colon	Adult male (SAMEA8132953)	SAMEA8133065	ERR7012745	89664336	76206864	84,99		117T	63T	HCA-56 samples		HCA-96 samples
3066	Duodenum	Adult male (SAMEA8132953)	SAMEA8133066	ERR7012746	84670606	69403059	81,97		117T	63T	HCA-56 samples		HCA-96 samples
3067	Heart	Adult male (SAMEA8132953)	SAMEA8133067	ERR7012725	85526596	74813715	87,47		117T	63T	HCA-56 samples		HCA-96 samples
3068	Hypothalamus	Adult male (SAMEA8132953)	SAMEA8133068	ERR7012717	80604370	71400035	88,58		117T				
3069	Ileum	Adult male (SAMEA8132953)	SAMEA8133069	ERR7012747	85102778	75560220	88,79		117T		HCA-56 samples		HCA-96 samples
3070	Jejunum	Adult male (SAMEA8132953)	SAMEA8133070	ERR7012748	90755588	79316997	87,4		117T		HCA-56 samples		HCA-96 samples
3071	Kidney	Adult male (SAMEA8132953)	SAMEA8133071	ERR7012752	124400566	113264821	91,05		117T	63T	HCA-56 samples		HCA-96 samples
3072	Liver	Adult male (SAMEA8132953)	SAMEA8133072	ERR7012759	84310662	73216787	86,84		117T	63T	HCA-56 samples		HCA-96 samples
3073	Lung	Adult male (SAMEA8132953)	SAMEA8133073	ERR7012764	91456160	78100103	85,4		117T	63T	HCA-56 samples		HCA-96 samples
3074	Lymph-node	Adult male (SAMEA8132953)	SAMEA8133074	ERR7012769	86376582	75368060	87,26		117T				
3076	PG (pituitary gland)	Adult male (SAMEA8132953)	SAMEA8133076	ERR7012778	126981662	108017535	85,07		117T	63T	HCA-56 samples		HCA-96 samples
3077	Rumen	Adult male (SAMEA8132953)	SAMEA8133077	ERR7012808	82271630	63695744	77,42		117T		HCA-56 samples		HCA-96 samples
3078	skeletal-muscle	Adult male (SAMEA8132953)	SAMEA8133078	ERR7012786	97408122	85529175	87,8		117T	63T	HCA-56 samples		HCA-96 samples
3079	Spleen	Adult male (SAMEA8132953)	SAMEA8133079	ERR7012788	80319242	69223288	86,19		117T	63T	HCA-56 samples		HCA-96 samples
3080	Subcutaneous-fat	Adult male (SAMEA8132953)	SAMEA8133080	ERR7012698	86749672	74812406	86,24		117T		HCA-56 samples		HCA-96 samples
3081	Testis	Adult male (SAMEA8132953)	SAMEA8133081	ERR7012790	80069072	71599173	89,42		117T				
3082	Thyroid-gland	Adult male (SAMEA8132953)	SAMEA8133082	ERR7012794	87784086	73848959	84,13		117T				

Selection of total-RNAseq reads for circRNA characterization in cattle

Objective : To provide a global and rapid characterization of circular RNAs in the bovine tissues, we selected chimeric reads from total-RNAseq of 117 samples originating from 26 tissues.

The reads (Paired ends 2X150bp) from total-RNAseq were mapped to the bovine genome reference. We selected the single-end alignments mode with the detection of chimeric (fusion) alignments. In this way, reads mapped to the bovine genome in two distinct segments and with a minimum size for the smallest mapped segment of 15 bp were highlighted (i.e. chimeric reads). We selected all paired-ends with one or two chimeric reads, i.e. 1 to 2% of the original paired-end reads. We provide 117X2 fastq files that can be easily concatenated to get a pair of fastq files of reasonable size (about 4.0 & 4.3 GB).

We considered a batch of 117 datasets obtained by total-RNAseq.

The six animals chosen for the sample collection originated from three populations kept in different environments representing different ages and sexes. Holstein Friesian calves from Belgium (neonatal: male calf 24 days [SAMEA8132948](#) and female calf 22 days [SAMEA8132949](#)), Kinsella composite juveniles from Canada (bullock 217 days [SAMEA8132950](#) and heifer 210 days [SAMEA8132951](#)) and Charolais x Holstein F2 cow [SAMEA8132952](#) and bull [SAMEA8132953](#) from Germany (adult: bull 18 months and cow 3 years, 7 months and 13 days).

Details of tissue sampling and storage, and RNA extraction, quality and integrity assessment are described in M. Salavati et al. G3 13 (2023). Samples (SRA) [SAMEA813xxx](#)

Total RNA libraries were built using the 'TruSeq Stranded Total RNA Library Prep Gold' kit (Illumina) following the protocol provided by the manufacturer. The Illumina NovaSeq 6000 instrument was used for sequencing, with a paired-end (PE) protocol (2x150bp). Fastq files (SRA) [ERR7012xxx](#)

117X2 alignment were performed

The RNAseq reads were mapped to the bovine genome reference assembly ARS-UCD1.2 (GCA_002263795.2) using STAR (version 2.7.10a, Dobin et al, Bioinformatics 29 (2013) 15-21.). We selected the single-end alignments mode of STAR (STAR-SE) mapping mates of each pair independently. STAR was used with the previously proposed parameters (Cheng et al. Bioinformatics 32 (2016) 1094-6) that enable highlighting chimeric reads with only two mapped segments and with a minimal size for the smallest mapped segment of 15 bp (`(-chimSegmentMin 15)`).

117X2 Chimeric.out.junction files were retained to select the appropriate PE from the original fastq files.

117X2 mini fastq files were obtained

These fastq.gz files can be used to align this concentration of sequences spanning the circular junction to the bovine genome, first step of the circRNA characterization. We recommend to concatenate these 117 fastq files before starting the circRNA characterization. We were able to perform the circRNA characterization with CIRCexplorer-2 using STAR-PE alignments.

Tissue	Name of mini-fastq file reads_1	name of mini-fastq file reads_2	Details
Adrenal gland	SAMEA8132954_chimericreads_1.fastq.gz	SAMEA8132954_chimericreads_2.fastq.gz	ERR7012699/SAMEA8132954/Neonate male (SAMEA8132948)
Adrenal gland	SAMEA8132975_chimericreads_1.fastq.gz	SAMEA8132975_chimericreads_2.fastq.gz	ERR7012700/SAMEA8132975/Neonate female (SAMEA8132949)
Adrenal gland	SAMEA8133020_chimericreads_1.fastq.gz	SAMEA8133020_chimericreads_2.fastq.gz	ERR7012701/SAMEA8133020/Juvenile castrated male (SAMEA8132951)
Adrenal gland	SAMEA8133039_chimericreads_1.fastq.gz	SAMEA8133039_chimericreads_2.fastq.gz	ERR7012702/SAMEA8133039/Adult female (SAMEA8132952)
Adrenal gland	SAMEA8133062_chimericreads_1.fastq.gz	SAMEA8133062_chimericreads_2.fastq.gz	ERR7012703/SAMEA8133062/Adult male (SAMEA8132953)
BRAIN-cortex	SAMEA8132956_chimericreads_1.fastq.gz	SAMEA8132956_chimericreads_2.fastq.gz	ERR7012705/SAMEA8132956/Neonate male (SAMEA8132948)
BRAIN-cortex	SAMEA8132977_chimericreads_1.fastq.gz	SAMEA8132977_chimericreads_2.fastq.gz	ERR7012708/SAMEA8132977/Neonate female (SAMEA8132949)
BRAIN-cortex	SAMEA8133022bis_chimericreads_1.fastq.gz	SAMEA8133022bis_chimericreads_2.fastq.gz	ERR7012711/SAMEA8133022/Juvenile castrated male (SAMEA8132951)
BRAIN-cortex	SAMEA8133022_chimericreads_1.fastq.gz	SAMEA8133022_chimericreads_2.fastq.gz	ERR7012713/SAMEA8133022/Juvenile castrated male (SAMEA8132951)
Brain-cortex	SAMEA8133041_chimericreads_1.fastq.gz	SAMEA8133041_chimericreads_2.fastq.gz	ERR7012715/SAMEA8133041/Adult female (SAMEA8132952)
Cerebellum	SAMEA8132955_chimericreads_1.fastq.gz	SAMEA8132955_chimericreads_2.fastq.gz	ERR7012704/SAMEA8132955/Neonate male (SAMEA8132948)
Cerebellum	SAMEA8132976_chimericreads_1.fastq.gz	SAMEA8132976_chimericreads_2.fastq.gz	ERR7012707/SAMEA8132976/Neonate female (SAMEA8132949)
Cerebellum	SAMEA8132999_chimericreads_1.fastq.gz	SAMEA8132999_chimericreads_2.fastq.gz	ERR7012710/SAMEA8132999/Juvenile female (SAMEA8132950)
Cerebellum	SAMEA8133021_chimericreads_1.fastq.gz	SAMEA8133021_chimericreads_2.fastq.gz	ERR7012712/SAMEA8133021/Juvenile castrated male (SAMEA8132951)
Cerebellum	SAMEA8133063_chimericreads_1.fastq.gz	SAMEA8133063_chimericreads_2.fastq.gz	ERR7012716/SAMEA8133063/Adult male (SAMEA8132953)
Colon	SAMEA8132957_chimericreads_1.fastq.gz	SAMEA8132957_chimericreads_2.fastq.gz	ERR7012726/SAMEA8132957/Neonate male (SAMEA8132948)
Colon	SAMEA8132978_chimericreads_1.fastq.gz	SAMEA8132978_chimericreads_2.fastq.gz	ERR7012798/SAMEA8132978/Neonate female (SAMEA8132949)
Colon	SAMEA8133001_chimericreads_1.fastq.gz	SAMEA8133001_chimericreads_2.fastq.gz	ERR7012733/SAMEA8133001/Juvenile female (SAMEA8132950)
Colon	SAMEA8133023_chimericreads_1.fastq.gz	SAMEA8133023_chimericreads_2.fastq.gz	ERR7012737/SAMEA8133023/Juvenile castrated male (SAMEA8132951)
Colon	SAMEA8133042_chimericreads_1.fastq.gz	SAMEA8133042_chimericreads_2.fastq.gz	ERR7012741/SAMEA8133042/Adult female (SAMEA8132952)
Colon	SAMEA8133065_chimericreads_1.fastq.gz	SAMEA8133065_chimericreads_2.fastq.gz	ERR7012745/SAMEA8133065/Adult male (SAMEA8132953)
Duodenum	SAMEA8132958_chimericreads_1.fastq.gz	SAMEA8132958_chimericreads_2.fastq.gz	ERR7012727/SAMEA8132958/Neonate male (SAMEA8132948)
Duodenum	SAMEA8132979_chimericreads_1.fastq.gz	SAMEA8132979_chimericreads_2.fastq.gz	ERR7012730/SAMEA8132979/Neonate female (SAMEA8132949)
Duodenum	SAMEA8133002_chimericreads_1.fastq.gz	SAMEA8133002_chimericreads_2.fastq.gz	ERR7012734/SAMEA8133002/Juvenile female (SAMEA8132950)
Duodenum	SAMEA8133024_chimericreads_1.fastq.gz	SAMEA8133024_chimericreads_2.fastq.gz	ERR7012738/SAMEA8133024/Juvenile castrated male (SAMEA8132951)
Duodenum	SAMEA8133043_chimericreads_1.fastq.gz	SAMEA8133043_chimericreads_2.fastq.gz	ERR7012742/SAMEA8133043/Adult female (SAMEA8132952)
Duodenum	SAMEA8133066_chimericreads_1.fastq.gz	SAMEA8133066_chimericreads_2.fastq.gz	ERR7012746/SAMEA8133066/Adult male (SAMEA8132953)
Heart	SAMEA8132959_chimericreads_1.fastq.gz	SAMEA8132959_chimericreads_2.fastq.gz	ERR7012720/SAMEA8132959/Neonate male (SAMEA8132948)
Heart	SAMEA8132980_chimericreads_1.fastq.gz	SAMEA8132980_chimericreads_2.fastq.gz	ERR7012721/SAMEA8132980/Neonate female (SAMEA8132949)
Heart	SAMEA8133003_chimericreads_1.fastq.gz	SAMEA8133003_chimericreads_2.fastq.gz	ERR7012722/SAMEA8133003/Juvenile female (SAMEA8132950)
Heart	SAMEA8133025_chimericreads_1.fastq.gz	SAMEA8133025_chimericreads_2.fastq.gz	ERR7012723/SAMEA8133025/Juvenile castrated male (SAMEA8132951)
Heart	SAMEA8133044_chimericreads_1.fastq.gz	SAMEA8133044_chimericreads_2.fastq.gz	ERR7012724/SAMEA8133044/Adult female (SAMEA8132952)
Heart	SAMEA8133067_chimericreads_1.fastq.gz	SAMEA8133067_chimericreads_2.fastq.gz	ERR7012725/SAMEA8133067/Adult male (SAMEA8132953)

Tissue	Name of mini-fastq file reads_1	name of mini-fastq file reads_2	Details
Hippocampus	SAMEA8133040_chimericreads_1.fastq.gz	SAMEA8133040_chimericreads_2.fastq.gz	ERR7012714/SAMEA8133040/Adult female (SAMEA8132952)
Hypothalamus	SAMEA8132960_chimericreads_1.fastq.gz	SAMEA8132960_chimericreads_2.fastq.gz	ERR7012706/SAMEA8132960/Neonate male (SAMEA8132948)
Hypothalamus	SAMEA8132981_chimericreads_1.fastq.gz	SAMEA8132981_chimericreads_2.fastq.gz	ERR7012709/SAMEA8132981/Neonate female (SAMEA8132949)
Hypothalamus	SAMEA8133068_chimericreads_1.fastq.gz	SAMEA8133068_chimericreads_2.fastq.gz	ERR7012717/SAMEA8133068/Adult male (SAMEA8132953)
Ileum	SAMEA8132961_chimericreads_1.fastq.gz	SAMEA8132961_chimericreads_2.fastq.gz	ERR7012728/SAMEA8132961/Neonate male (SAMEA8132948)
Ileum	SAMEA8132982_chimericreads_1.fastq.gz	SAMEA8132982_chimericreads_2.fastq.gz	ERR7012731/SAMEA8132982/Neonate female (SAMEA8132949)
Ileum	SAMEA8133004_chimericreads_1.fastq.gz	SAMEA8133004_chimericreads_2.fastq.gz	ERR7012735/SAMEA8133004/Juvenile female (SAMEA8132950)
Ileum	SAMEA8133026_chimericreads_1.fastq.gz	SAMEA8133026_chimericreads_2.fastq.gz	ERR7012739/SAMEA8133026/Juvenile castrated male (SAMEA8132951)
Ileum	SAMEA8133046_chimericreads_1.fastq.gz	SAMEA8133046_chimericreads_2.fastq.gz	ERR7012743/SAMEA8133046/Adult female (SAMEA8132952)
Ileum	SAMEA8133069_chimericreads_1.fastq.gz	SAMEA8133069_chimericreads_2.fastq.gz	ERR7012747/SAMEA8133069/Adult male (SAMEA8132953)
Jejunum	SAMEA8132962_chimericreads_1.fastq.gz	SAMEA8132962_chimericreads_2.fastq.gz	ERR7012729/SAMEA8132962/Neonate male (SAMEA8132948)
Jejunum	SAMEA8132983_chimericreads_1.fastq.gz	SAMEA8132983_chimericreads_2.fastq.gz	ERR7012732/SAMEA8132983/Neonate female (SAMEA8132949)
Jejunum	SAMEA8133005_chimericreads_1.fastq.gz	SAMEA8133005_chimericreads_2.fastq.gz	ERR7012736/SAMEA8133005/Juvenile female (SAMEA8132950)
Jejunum	SAMEA8133047_chimericreads_1.fastq.gz	SAMEA8133047_chimericreads_2.fastq.gz	ERR7012744/SAMEA8133047/Adult female (SAMEA8132952)
Jejunum	SAMEA8133070_chimericreads_1.fastq.gz	SAMEA8133070_chimericreads_2.fastq.gz	ERR7012748/SAMEA8133070/Adult male (SAMEA8132953)
Kidney	SAMEA8132963_chimericreads_1.fastq.gz	SAMEA8132963_chimericreads_2.fastq.gz	ERR7012749/SAMEA8132963/Neonate male (SAMEA8132948)
Kidney	SAMEA8132984_chimericreads_1.fastq.gz	SAMEA8132984_chimericreads_2.fastq.gz	ERR7012809/SAMEA8132984/Neonate female (SAMEA8132949)
Kidney	SAMEA8133006_chimericreads_1.fastq.gz	SAMEA8133006_chimericreads_2.fastq.gz	ERR7012750/SAMEA8133006/Juvenile female (SAMEA8132950)
Kidney	SAMEA8133028_chimericreads_1.fastq.gz	SAMEA8133028_chimericreads_2.fastq.gz	ERR7012751/SAMEA8133028/Juvenile castrated male (SAMEA8132951)
Kidney	SAMEA8133071_chimericreads_1.fastq.gz	SAMEA8133071_chimericreads_2.fastq.gz	ERR7012752/SAMEA8133071/Adult male (SAMEA8132953)
Liver	SAMEA8132964_chimericreads_1.fastq.gz	SAMEA8132964_chimericreads_2.fastq.gz	ERR7012754/SAMEA8132964/Neonate male (SAMEA8132948)
Liver	SAMEA8132985_chimericreads_1.fastq.gz	SAMEA8132985_chimericreads_2.fastq.gz	ERR7012755/SAMEA8132985/Neonate female (SAMEA8132949)
Liver	SAMEA8133007_chimericreads_1.fastq.gz	SAMEA8133007_chimericreads_2.fastq.gz	ERR7012756/SAMEA8133007/Juvenile female (SAMEA8132950)
Liver	SAMEA8133029_chimericreads_1.fastq.gz	SAMEA8133029_chimericreads_2.fastq.gz	ERR7012757/SAMEA8133029/Juvenile castrated male (SAMEA8132951)
Liver	SAMEA8133049_chimericreads_1.fastq.gz	SAMEA8133049_chimericreads_2.fastq.gz	ERR7012758/SAMEA8133049/Adult female (SAMEA8132952)
Liver	SAMEA8133072_chimericreads_1.fastq.gz	SAMEA8133072_chimericreads_2.fastq.gz	ERR7012759/SAMEA8133072/Adult male (SAMEA8132953)
Lung	SAMEA8132965_chimericreads_1.fastq.gz	SAMEA8132965_chimericreads_2.fastq.gz	ERR7012760/SAMEA8132965/Neonate male (SAMEA8132948)
Lung	SAMEA8132986_chimericreads_1.fastq.gz	SAMEA8132986_chimericreads_2.fastq.gz	ERR7012810/SAMEA8132986/Neonate female (SAMEA8132949)
Lung	SAMEA8133008_chimericreads_1.fastq.gz	SAMEA8133008_chimericreads_2.fastq.gz	ERR7012761/SAMEA8133008/Juvenile female (SAMEA8132950)
Lung	SAMEA8133030_chimericreads_1.fastq.gz	SAMEA8133030_chimericreads_2.fastq.gz	ERR7012762/SAMEA8133030/Juvenile castrated male (SAMEA8132951)
Lung	SAMEA8133050_chimericreads_1.fastq.gz	SAMEA8133050_chimericreads_2.fastq.gz	ERR7012763/SAMEA8133050/Adult female (SAMEA8132952)
Lung	SAMEA8133073_chimericreads_1.fastq.gz	SAMEA8133073_chimericreads_2.fastq.gz	ERR7012764/SAMEA8133073/Adult male (SAMEA8132953)

Tissue	Name of mini-fastq file reads_1	name of mini-fastq file reads_2	Details
Lymph-node	SAMEA8132966_chimericreads_1.fastq.gz	SAMEA8132966_chimericreads_2.fastq.gz	ERR7012765/SAMEA8132966/Neonate male (SAMEA8132948)
Lymph-node	SAMEA8132987_chimericreads_1.fastq.gz	SAMEA8132987_chimericreads_2.fastq.gz	ERR7012799/SAMEA8132987/Neonate female (SAMEA8132949)
Lymph-node	SAMEA8133051_chimericreads_1.fastq.gz	SAMEA8133051_chimericreads_2.fastq.gz	ERR7012768/SAMEA8133051/Adult female (SAMEA8132952)
Lymph-node	SAMEA8133074_chimericreads_1.fastq.gz	SAMEA8133074_chimericreads_2.fastq.gz	ERR7012769/SAMEA8133074/Adult male (SAMEA8132953)
Mammary-gland	SAMEA8132988_chimericreads_1.fastq.gz	SAMEA8132988_chimericreads_2.fastq.gz	ERR7012718/SAMEA8132988/Neonate female (SAMEA8132949)
Mammary-gland	SAMEA8133010_chimericreads_1.fastq.gz	SAMEA8133010_chimericreads_2.fastq.gz	ERR7012753/SAMEA8133010/Juvenile female (SAMEA8132950)
Ovary	SAMEA8132989_chimericreads_1.fastq.gz	SAMEA8132989_chimericreads_2.fastq.gz	ERR7012770/SAMEA8132989/Neonate female (SAMEA8132949)
Ovary	SAMEA8133011_chimericreads_1.fastq.gz	SAMEA8133011_chimericreads_2.fastq.gz	ERR7012801/SAMEA8133011/Juvenile female (SAMEA8132950)
Ovary	SAMEA8133053_chimericreads_1.fastq.gz	SAMEA8133053_chimericreads_2.fastq.gz	ERR7012806/SAMEA8133053/Adult female (SAMEA8132952)
Pancreas	SAMEA8132967_chimericreads_1.fastq.gz	SAMEA8132967_chimericreads_2.fastq.gz	ERR7012771/SAMEA8132967/Neonate male (SAMEA8132948)
Pancreas	SAMEA8132990_chimericreads_1.fastq.gz	SAMEA8132990_chimericreads_2.fastq.gz	ERR7012772/SAMEA8132990/Neonate female (SAMEA8132949)
PG (pituitary gland)	SAMEA8132968_chimericreads_1.fastq.gz	SAMEA8132968_chimericreads_2.fastq.gz	ERR7012773/SAMEA8132968/Neonate male (SAMEA8132948)
PG (pituitary gland)	SAMEA8132991_chimericreads_1.fastq.gz	SAMEA8132991_chimericreads_2.fastq.gz	ERR7012774/SAMEA8132991/Neonate female (SAMEA8132949)
PG (pituitary gland)	SAMEA8133013_chimericreads_1.fastq.gz	SAMEA8133013_chimericreads_2.fastq.gz	ERR7012775/SAMEA8133013/Juvenile female (SAMEA8132950)
PG (pituitary gland)	SAMEA8133033_chimericreads_1.fastq.gz	SAMEA8133033_chimericreads_2.fastq.gz	ERR7012776/SAMEA8133033/Juvenile castrated male (SAMEA8132951)
PG (pituitary gland)	SAMEA8133055_chimericreads_1.fastq.gz	SAMEA8133055_chimericreads_2.fastq.gz	ERR7012777/SAMEA8133055/Adult female (SAMEA8132952)
PG (pituitary gland)	SAMEA8133076_chimericreads_1.fastq.gz	SAMEA8133076_chimericreads_2.fastq.gz	ERR7012778/SAMEA8133076/Adult male (SAMEA8132953)
Rumen	SAMEA8132969_chimericreads_1.fastq.gz	SAMEA8132969_chimericreads_2.fastq.gz	ERR7012779/SAMEA8132969/Neonate male (SAMEA8132948)
Rumen	SAMEA8132992_chimericreads_1.fastq.gz	SAMEA8132992_chimericreads_2.fastq.gz	ERR7012780/SAMEA8132992/Neonate female (SAMEA8132949)
Rumen	SAMEA8133014_chimericreads_1.fastq.gz	SAMEA8133014_chimericreads_2.fastq.gz	ERR7012802/SAMEA8133014/Juvenile female (SAMEA8132950)
Rumen	SAMEA8133034_chimericreads_1.fastq.gz	SAMEA8133034_chimericreads_2.fastq.gz	ERR7012804/SAMEA8133034/Juvenile castrated male (SAMEA8132951)
Rumen	SAMEA8133056_chimericreads_1.fastq.gz	SAMEA8133056_chimericreads_2.fastq.gz	ERR7012807/SAMEA8133056/Adult female (SAMEA8132952)
Rumen	SAMEA8133077_chimericreads_1.fastq.gz	SAMEA8133077_chimericreads_2.fastq.gz	ERR7012808/SAMEA8133077/Adult male (SAMEA8132953)
skeletal-muscle	SAMEA8132970_chimericreads_1.fastq.gz	SAMEA8132970_chimericreads_2.fastq.gz	ERR7012781/SAMEA8132970/Neonate male (SAMEA8132948)
skeletal-muscle	SAMEA8132993_chimericreads_1.fastq.gz	SAMEA8132993_chimericreads_2.fastq.gz	ERR7012782/SAMEA8132993/Neonate female (SAMEA8132949)
skeletal-muscle	SAMEA8133015_chimericreads_1.fastq.gz	SAMEA8133015_chimericreads_2.fastq.gz	ERR7012783/SAMEA8133015/Juvenile female (SAMEA8132950)
skeletal-muscle	SAMEA8133035_chimericreads_1.fastq.gz	SAMEA8133035_chimericreads_2.fastq.gz	ERR7012784/SAMEA8133035/Juvenile castrated male (SAMEA8132951)
skeletal-muscle	SAMEA8133057_chimericreads_1.fastq.gz	SAMEA8133057_chimericreads_2.fastq.gz	ERR7012785/SAMEA8133057/Adult female (SAMEA8132952)
skeletal-muscle	SAMEA8133078_chimericreads_1.fastq.gz	SAMEA8133078_chimericreads_2.fastq.gz	ERR7012786/SAMEA8133078/Adult male (SAMEA8132953)
Spleen	SAMEA8132971_chimericreads_1.fastq.gz	SAMEA8132971_chimericreads_2.fastq.gz	ERR7012797/SAMEA8132971/Neonate male (SAMEA8132948)
Spleen	SAMEA8132994_chimericreads_1.fastq.gz	SAMEA8132994_chimericreads_2.fastq.gz	ERR7012800/SAMEA8132994/Neonate female (SAMEA8132949)
Spleen	SAMEA8133016_chimericreads_1.fastq.gz	SAMEA8133016_chimericreads_2.fastq.gz	ERR7012803/SAMEA8133016/Juvenile female (SAMEA8132950)
Spleen	SAMEA8133036_chimericreads_1.fastq.gz	SAMEA8133036_chimericreads_2.fastq.gz	ERR7012805/SAMEA8133036/Juvenile castrated male (SAMEA8132951)
Spleen	SAMEA8133058_chimericreads_1.fastq.gz	SAMEA8133058_chimericreads_2.fastq.gz	ERR7012787/SAMEA8133058/Adult female (SAMEA8132952)
Spleen	SAMEA8133079_chimericreads_1.fastq.gz	SAMEA8133079_chimericreads_2.fastq.gz	ERR7012788/SAMEA8133079/Adult male (SAMEA8132953)

Tissue	Name of mini-fastq file reads_1	name of mini-fastq file reads_2	Details
Subcutaneous-fat	SAMEA8132972_chimericreads_1.fastq.gz	SAMEA8132972_chimericreads_2.fastq.gz	ERR7012693/SAMEA8132972/Neonate male (SAMEA8132948)
Subcutaneous-fat	SAMEA8132995_chimericreads_1.fastq.gz	SAMEA8132995_chimericreads_2.fastq.gz	ERR7012694/SAMEA8132995/Neonate female (SAMEA8132949)
Subcutaneous-fat	SAMEA8133017_chimericreads_1.fastq.gz	SAMEA8133017_chimericreads_2.fastq.gz	ERR7012695/SAMEA8133017/Juvenile female (SAMEA8132950)
Subcutaneous-fat	SAMEA8133037_chimericreads_1.fastq.gz	SAMEA8133037_chimericreads_2.fastq.gz	ERR7012696/SAMEA8133037/Juvenile castrated male (SAMEA8132951)
Subcutaneous-fat	SAMEA8133059_chimericreads_1.fastq.gz	SAMEA8133059_chimericreads_2.fastq.gz	ERR7012697/SAMEA8133059/Adult female (SAMEA8132952)
Subcutaneous-fat	SAMEA8133080_chimericreads_1.fastq.gz	SAMEA8133080_chimericreads_2.fastq.gz	ERR7012698/SAMEA8133080/Adult male (SAMEA8132953)
TB-Lymph	SAMEA8133009_chimericreads_1.fastq.gz	SAMEA8133009_chimericreads_2.fastq.gz	ERR7012766/SAMEA8133009/Juvenile female (SAMEA8132950)
TB-Lymph	SAMEA8133031_chimericreads_1.fastq.gz	SAMEA8133031_chimericreads_2.fastq.gz	ERR7012767/SAMEA8133031/Juvenile castrated male (SAMEA8132951)
Testis	SAMEA8132973_chimericreads_1.fastq.gz	SAMEA8132973_chimericreads_2.fastq.gz	ERR7012789/SAMEA8132973/Neonate male (SAMEA8132948)
Testis	SAMEA8133081_chimericreads_1.fastq.gz	SAMEA8133081_chimericreads_2.fastq.gz	ERR7012790/SAMEA8133081/Adult male (SAMEA8132953)
Thyroid-gland	SAMEA8132974_chimericreads_1.fastq.gz	SAMEA8132974_chimericreads_2.fastq.gz	ERR7012791/SAMEA8132974/Neonate male (SAMEA8132948)
Thyroid-gland	SAMEA8132996_chimericreads_1.fastq.gz	SAMEA8132996_chimericreads_2.fastq.gz	ERR7012792/SAMEA8132996/Neonate female (SAMEA8132949)
Thyroid-gland	SAMEA8133060_chimericreads_1.fastq.gz	SAMEA8133060_chimericreads_2.fastq.gz	ERR7012793/SAMEA8133060/Adult female (SAMEA8132952)
Thyroid-gland	SAMEA8133082_chimericreads_1.fastq.gz	SAMEA8133082_chimericreads_2.fastq.gz	ERR7012794/SAMEA8133082/Adult male (SAMEA8132953)
Uterine-horn	SAMEA8133019_chimericreads_1.fastq.gz	SAMEA8133019_chimericreads_2.fastq.gz	ERR7012795/SAMEA8133019/Juvenile female (SAMEA8132950)
Uterus	SAMEA8132997_chimericreads_1.fastq.gz	SAMEA8132997_chimericreads_2.fastq.gz	ERR7012719/SAMEA8132997/Neonate female (SAMEA8132949)
Uterus	SAMEA8133061_chimericreads_1.fastq.gz	SAMEA8133061_chimericreads_2.fastq.gz	ERR7012796/SAMEA8133061/Adult female (SAMEA8132952)

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2
				1:1970278-1970807 -	Bov_circSON(5,6)	ENSBTAG00000008482	ENSBTAG00000008482
				1:44107797-44116119 -		MSTRG	MSTRG
				1:66379711-66441961 +		MSTRG	MSTRG
				1:92137410-92671026 -		ENSBTAG00000048493	MSTRG
				10:10100682-10133104 -	Bov_circDMGDH(3,14)	ENSBTAG00000002110	ENSBTAG00000002110
				10:25031488-25331918 -		MSTRG	ENSBTAG00000050265
				10:26645468-26648605 -		ENSBTAG00000037452	MSTRG
				10:42834505-42834785 -		MSTRG	MSTRG
				10:42834517-42834785 -		MSTRG	MSTRG
				10:46480908-46485029 -	Bov_circUSP3(2,3)	ENSBTAG00000008805	ENSBTAG00000008805
				10:48912997-48914848 +		MSTRG	MSTRG
				11:15814069-15838298 +	Bov_circLTBP1(20,24)	ENSBTAG00000019839	ENSBTAG00000019839
				11:18854666-18854840 +	Bov_circCRIM1(2)	MSTRG	ENSBTAG00000009020
				11:19655272-19656762 -	Bov_circCEBPZ(2)	ENSBTAG00000039770	MSTRG
				11:20394731-20413368 +	Bov_circRMDN2(6,10)	ENSBTAG00000032905	ENSBTAG00000032905
				11:32308520-33050115 -		ENSBTAG00000046199	MSTRG
				11:32308529-32930030 -		MSTRG	ENSBTAG00000024021
				11:32428963-33050115 -		ENSBTAG00000046199	MSTRG
				11:32467805-33050115 -		ENSBTAG00000046199	MSTRG
				11:47182404-47200705 +		MSTRG	MSTRG
				11:47182404-47218808 +		MSTRG	MSTRG
				12:16089514-16106617 -	Bov_circENSBTAG00000048402(4,7)	ENSBTAG00000048402	ENSBTAG00000048402
				12:21375510-21376681 -	Bov_circATP7B(2)	ENSBTAG00000010353	ENSBTAG00000010353
				12:58696957-58697342 -		MSTRG	MSTRG
				12:58696957-58700364 -		MSTRG	MSTRG
				12:69493504-72191077 -		ENSBTAG00000032603	MSTRG
				12:75512669-75512900 -	Bov_circSTK24(2)	ENSBTAG00000032234	ENSBTAG00000032234
				12:82262947-82263231 -	Bov_circEFNB2(2)	MSTRG	ENSBTAG00000016991
				12:83595898-83598896 -		MSTRG	MSTRG
				12:87179042-87179565 +		ENSBTAG00000053845	MSTRG

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2
				13:12996839-13034717 -		MSTRG	ENSBTAG00000008937
				13:15989888-15999305 -	Bov_circTAF3(3,4)	ENSBTAG00000002836	ENSBTAG00000002836
				13:16465089-18340828 +		MSTRG	ENSBTAG00000007133
				13:22151002-22159062 -	Bov_circNEBL(13,14)	ENSBTAG00000013339	ENSBTAG00000013339 NEBL
				13:22161876-22161987 -		ENSBTAG00000013339	ENSBTAG00000013339 NEBL
				13:47731685-47737684 -	Bov_circGPCPD1(12,14)	ENSBTAG00000008293	ENSBTAG00000008293
				13:73498938-73538354 +		MSTRG	MSTRG
				14:13761743-13763101 +		MSTRG	MSTRG
				14:60175681-60225592 +	Bov_circDPYS(3,8)	ENSBTAG00000021887	ENSBTAG00000021887
				14:67597408-67605507 -	Bov_circSDC2(2,3)	ENSBTAG00000014357	ENSBTAG00000014357
				14:69180646-69193643 -		MSTRG	MSTRG
				14:73755153-73758859 +	Bov_circNBN(3,5)	ENSBTAG00000013225	ENSBTAG00000013225
				15:20465437-20484054 +	Bov_circFDX1(5,6)	MSTRG	ENSBTAG00000011793
				15:47896175-47896286 +		MSTRG	MSTRG
				15:62218976-62220229 -		MSTRG	MSTRG
				16:5658319-6028508 -		MSTRG	MSTRG
				16:6028508-6198800 -		MSTRG	MSTRG
				16:6039074-6044324 -	Bov_circENSBTAG00000040409(4,6)	ENSBTAG00000040409	ENSBTAG00000040409
				16:6137187-6228212 -		MSTRG	MSTRG
				16:6211675-6213076 -	Bov_circCFH(19,20)	ENSBTAG00000023177	ENSBTAG00000023177
				17:70728550-70736959 -		MSTRG	MSTRG

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2	
				18:13326176-13392222 -		ENSBTAG00000006531	MSTRG	
				18:50657673-50667111 -		MSTRG	MSTRG	
				18:50657673-50688171 -		MSTRG	MSTRG	
				18:51423863-51441163 -		MSTRG	ENSBTAG000000049346	
				18:51425020-51445763 -		MSTRG	ENSBTAG000000049346	
				18:51426489-51446874 -		ENSBTAG000000049346	MSTRG	
			18:59657818-59657902 -		MSTRG	MSTRG		
			19:14302405-14313459 +		MSTRG	MSTRG		
			19:62616402-62619929 -	Bov_circAPOH(5,6)	ENSBTAG00000001915	ENSBTAG00000001915	APOH	
			19:62619740-62622311 -	Bov_circAPOH(3,5)	ENSBTAG00000001915	ENSBTAG00000001915	APOH	
			2:118344658-118401827 +		MSTRG	MSTRG		
			2:129055284-129056870 +		MSTRG	MSTRG		
			2:131655383-131701686 +	Bov_circEIF4G3(3,9)	ENSBTAG000000040215	ENSBTAG000000040215		
			2:18153915-18207428 +		ENSBTAG000000053974	MSTRG	TTN region	
			2:41356683-41357098 -		MSTRG	MSTRG		
			2:44489124-44489229 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:44493916-44494024 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:44578947-44579052 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:44626680-44626791 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:44626680-44627310 +	Bov_circNEB(127,128)	ENSBTAG00000006907	ENSBTAG00000006907		
			2:44627199-44627310 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:44628524-44628629 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:44636226-44636319 +		ENSBTAG00000006907	ENSBTAG00000006907		
			2:92946634-93503098 +		MSTRG	ENSBTAG000000010293		
			2:98102927-98103633 -	Bov_circMYL1(4,5)	ENSBTAG000000009707	ENSBTAG000000009707		
			20:23872120-24762673 +		ENSBTAG000000010510	MSTRG		
			20:24233876-24237795 +	Bov_circSPG4B(5,6)	ENSBTAG000000003200	ENSBTAG000000003200		
			20:25220727-32768360 +		MSTRG	ENSBTAG0000000033186		
			21:43635885-44152451 +		MSTRG	ENSBTAG000000004462		
			21:58740796-58740925 +		ENSBTAG000000003152	ENSBTAG000000003152		

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2	
				23:25123379-25137900 -		ENSBTAG00000021516	MSTRG	
				23:27126616-27148802 -		MSTRG	MSTRG	
				23:27784784-27945595 +		MSTRG	MSTRG	
				23:27876337-27903025 +		MSTRG	MSTRG	
				23:28524821-28720812 -		MSTRG.24752	MSTRG.24752	
				23:28525463-28549355 -		MSTRG.24752	ENSBTAG00000019386	BOLA-NC1
				23:28525463-28571156 -		MSTRG.24752	MSTRG.24752	
				23:28525463-28721197 -		MSTRG.24752	MSTRG.24752	
				23:28525686-28549881 -		MSTRG.24752	ENSBTAG00000019386	
				23:28525686-28620125 -		MSTRG.24752	MSTRG.24752	
				23:28525686-28664951 -		MSTRG.24752	ENSBTAG00000020116	JSP.1
				23:28525686-28721729 -		MSTRG.24752	ENSBTAG00000002069	BOLA
				23:28550175-28571978 -		MSTRG.24752	MSTRG.24752	
				23:28551177-28572078 -		MSTRG.24752	MSTRG.24752	
				23:28571978-28665244 -		MSTRG.24752	MSTRG.24752	
				23:45543863-45545360 -		MSTRG	MSTRG	
				23:51258172-51265552 +	Bov_circGMDS(2,4)	ENSBTAG00000012058	ENSBTAG00000012058	
				24:30682893-32415677 +		ENSBTAG00000011531	MSTRG	
				25:18681879-20010795 -		MSTRG	ENSBTAG00000018050	
				25:35696120-35721886 -		MSTRG	MSTRG	
				25:621522-621623 -		MSTRG	ENSBTAG00000002470	
				25:7894935-7895211 +	Bov_circHAPSTR1(3)	ENSBTAG00000013858	ENSBTAG00000013858	
				26:16125939-16126089 +		MSTRG	ENSBTAG000000037795	

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2
				27:43784206-43823684 +		MSTRG	MSTRG
				27:6220657-6220817 -		MSTRG	MSTRG
				27:6220658-6220817 -		MSTRG	MSTRG
				27:6221044-6221313 -		MSTRG	MSTRG
				27:6221073-6221307 -		MSTRG	MSTRG
				27:6221074-6221307 -		MSTRG	MSTRG
				27:6221077-6221307 -		MSTRG	MSTRG
				27:6221083-6221307 -		MSTRG	MSTRG
				27:6221085-6221446 +		MSTRG	MSTRG
				27:6221096-6221294 -		MSTRG	MSTRG
				27:6221097-6221213 +		MSTRG	MSTRG
				27:6221112-6221307 -		MSTRG	MSTRG
				27:6221115-6221307 -		MSTRG	MSTRG
				27:6221116-6221296 -		MSTRG	MSTRG
				27:6221116-6221513 -		MSTRG	MSTRG
				27:6224668-6225227 +		MSTRG	MSTRG
				27:6224668-6225654 +		MSTRG	MSTRG
				27:6224669-6225227 +		MSTRG	MSTRG
				27:6224669-6225654 +		MSTRG	MSTRG
				27:6224681-6225654 +		MSTRG	MSTRG
				27:6224684-6225227 +		MSTRG	MSTRG
				27:6224684-6225654 +		MSTRG	MSTRG
				27:6224688-6225228 +		MSTRG	MSTRG
				27:6224694-6225654 +		MSTRG	MSTRG
				28:30279114-30282845 +	Bov_circADK(5,6)	ENSBTAG00000011072	ENSBTAG00000011072
				28:31550542-31554511 +		MSTRG	MSTRG
				28:9915286-9915406 +		ENSBTAG00000022886	ENSBTAG00000022886
				29:40892625-40892812 -		MSTRG	MSTRG
				29:44179746-44180551 +		MSTRG	MSTRG

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2
				3:12562007-12562331 +		MSTRG	MSTRG
				3:15677046-15677594 +		MSTRG	MSTRG
				3:753072-753237 +	Bov_circMPC2(2)	ENSBTAG00000020968	ENSBTAG00000020968
				3:85985858-86079003 +		MSTRG	ENSBTAG00000051030
				3:93331571-93331679 -		ENSBTAG00000003746	ENSBTAG00000003746
				4:106061758-106062127 +	Bov_circENSBTAG00000047919(3)	ENSBTAG00000047919	ENSBTAG00000047919
				4:110112493-110649994 +		MSTRG.34791	MSTRG.34791
				4:110112493-110997625 +		MSTRG.34791	MSTRG.34791
				4:24687917-24760919 -	Bov_circCRPPA(6,9)	ENSBTAG00000015073	ENSBTAG00000015073
				4:76544992-76545268 +		MSTRG	MSTRG
				4:96963239-97625652 +	Bov_circEXOC4(2,14)	ENSBTAG00000014112	ENSBTAG00000014112
				4:98992108-99087915 -		ENSBTAG00000047605	MSTRG
				5:100728965-100730071 -		MSTRG	MSTRG
				5:23175861-23177044 -		MSTRG	MSTRG
				5:29469019-29470739 -	Bov_circLARP4(5,6)	ENSBTAG00000017164	ENSBTAG00000017164
				5:33449377-33449610 +		ENSBTAG00000014197	MSTRG
				5:62930324-63766674 -		ENSBTAG00000030994	MSTRG.36148
				5:63213867-63766674 -		ENSBTAG00000030994	MSTRG.36148
				5:65474177-65480521 +	Bov_circMYBPC1(26,28)	ENSBTAG00000011392	ENSBTAG00000011392
				5:66678657-66695808 -	Bov_circPAH(2,3)	ENSBTAG00000012794	ENSBTAG00000012794
				5:8141841-8941762 +		MSTRG.35124	ENSBTAG000000034693
				6:113441473-113441594 +	Bov_circTBC1D14(3)	MSTRG	ENSBTAG00000005493
				6:12981403-12981751 -	Bov_circLARP7(6)	ENSBTAG00000009632	ENSBTAG00000009632
				6:15889958-15890702 -	Bov_circSEC24B(2)	ENSBTAG00000010945	MSTRG
				6:23617784-23617985 +	Bov_circPPP3CA(2)	ENSBTAG00000016005	ENSBTAG00000016005

CIRI2 63m	annotation	CD 63m	genomic size > 500kb	List of unreliable (exonic) circRNAs	annotation CE2	Minimal annotation 1	Minimal annotation 2
				6:30921255-31540153 -		ENSBTAG00000046413	MSTRG.37756
				6:31028515-31540153 -		ENSBTAG00000046413	MSTRG.37756
				6:31364667-32042889 -		ENSBTAG00000046413	MSTRG.37756
				6:31516829-32042889 -		ENSBTAG00000046413	MSTRG.37756
				6:32042733-32042889 -		MSTRG	MSTRG
				6:36328309-36328421 +		MSTRG	MSTRG
				6:40804886-40806201 -		MSTRG	MSTRG
				6:58067993-58070648 -		MSTRG	MSTRG
				6:91882728-91883095 -		MSTRG	MSTRG
				7:107466668-107466800 -		MSTRG	ENSBTAG00000054662
				7:1616269-1616383 -		ENSBTAG00000048107	ENSBTAG00000048107
				7:2734875-2735139 -		MSTRG	MSTRG
				7:2734875-2735705 -		MSTRG	MSTRG
				7:2736022-2752768 -		MSTRG	MSTRG
				7:38889571-38891198 +		MSTRG	MSTRG
				8:105387000-105388063 +	Bov_circPAPPA(2)	ENSBTAG00000004010	ENSBTAG00000004010
				8:38717329-38741975 +	Bov_circBRD10(2,3)	ENSBTAG00000047550	ENSBTAG00000047550
				8:75254058-75256286 +		MSTRG	MSTRG
				8:8317789-8322639 -		MSTRG	MSTRG
				8:91265344-91276385 -		MSTRG	MSTRG
				9:83204623-89320154 -		ENSBTAG00000008112	MSTRG
				9:83856820-83857098 +	Bov_circRAB32(2)	ENSBTAG00000009784	ENSBTAG00000009784
				9:9868382-9901500 +		ENSBTAG00000038190	MSTRG
				NKLS02000149.1:6316-6445 +		MSTRG	MSTRG
				NKLS02000910.1:426068-449569 +		MSTRG	MSTRG
				NKLS02000910.1:718196-965670 -		MSTRG	MSTRG
				NKLS02001494.1:115178-314730 +		MSTRG	MSTRG
				NKLS02001733.1:29292-47391 +		MSTRG	MSTRG
				NKLS02001928.1:65534-657324 +		MSTRG.45116	MSTRG.45116
				X:111713903-112640684 +		ENSBTAG00000008248	MSTRG.46951
				X:24310533-24312231 +		MSTRG	MSTRG