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Animal Production Science

An integrated approach in gene-expression landscape profiling to identify housekeeping and tissue-specific genes in cattle

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Table S1: NCBI SRA id with tissue annotaiton in this study

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
ERS4084927	adrenal medulla	ERS2984696	blood
SRS5664066	ampulla	ERS2984697	blood
SRS5664067	ampulla	ERS2984698	blood
SRS5664068	ampulla	ERS2984699	blood
SRS5664069	ampulla	ERS2984700	blood
SRS5664070	ampulla	ERS2984701	blood
SRS5664071	ampulla	ERS2984702	blood
SRS5664072	ampulla	ERS2984703	blood
SRS5664073	ampulla	ERS2984704	blood
SRS5664074	ampulla	ERS2984705	blood
SRS4394681	antirior pituitary	ERS2984706	blood
SRS4394738	antirior pituitary	ERS2984707	blood
SRS4394751	antirior pituitary	ERS2984708	blood
SRS4394784	antirior pituitary	SRS1586283	blood
SRS4394890	antirior pituitary	SRS1586284	blood
SRS4394931	antirior pituitary	SRS1586285	blood
ERS2984673	blood	SRS1586286	blood
ERS2984674	blood	SRS1586287	blood
ERS2984675	blood	SRS1586288	blood
ERS2984676	blood	SRS1586289	blood
ERS2984677	blood	SRS1586290	blood
ERS2984678	blood	SRS1586291	blood
ERS2984679	blood	SRS1586292	blood
ERS2984680	blood	SRS1586293	blood
ERS2984681	blood	SRS1586294	blood
ERS2984682	blood	SRS1586295	blood
ERS2984683	blood	SRS1586296	blood
ERS2984684	blood	SRS1586297	blood
ERS2984685	blood	SRS1586298	blood
ERS2984686	blood	SRS1586299	blood
ERS2984687	blood	SRS1586300	blood
ERS2984688	blood	SRS1586301	blood
ERS2984689	blood	SRS1586302	blood
ERS2984690	blood	SRS1586303	blood
ERS2984691	blood	SRS1586304	blood
ERS2984692	blood	SRS1586305	blood

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
ERS2984694	blood	SRS1586307	blood
ERS2984695	blood	SRS1586308	blood
ERS2984693	blood	SRS1586306	blood
ERS2984696	blood	SRS1586339	blood
ERS2984697	blood	SRS1586340	blood
ERS2984698	blood	SRS1586341	blood
ERS2984699	blood	SRS1586343	blood
ERS2984700	blood	SRS1586344	blood
ERS2984701	blood	SRS1586345	blood
ERS2984702	blood	SRS1586346	blood
ERS2984703	blood	SRS1586347	blood
ERS2984704	blood	SRS1586348	blood
SRS1586309	blood	SRS1586349	blood
SRS1586310	blood	SRS1586350	blood
SRS1586311	blood	SRS1586351	blood
SRS1586312	blood	SRS1586352	blood
SRS1586313	blood	SRS1586353	blood
SRS1586314	blood	SRS1586354	blood
SRS1586315	blood	SRS1586355	blood
SRS1586316	blood	SRS1586356	blood
SRS1586317	blood	SRS1586357	blood
SRS1586318	blood	SRS1586358	blood
SRS1586319	blood	SRS1586359	blood
SRS1586320	blood	SRS1586360	blood
SRS1586321	blood	SRS1586361	blood
SRS1586322	blood	SRS1586362	blood
SRS1586323	blood	SRS1586364	blood
SRS1586324	blood	SRS1586365	blood
SRS1586325	blood	SRS1586366	blood
SRS1586326	blood	SRS1586367	blood
SRS1586327	blood	SRS1586368	blood
SRS1586328	blood	SRS1586369	blood
SRS1586329	blood	SRS1586370	blood
SRS1586330	blood	SRS1586371	blood
SRS1586331	blood	SRS1586372	blood
SRS1586332	blood	SRS1586373	blood
SRS1586333	blood	SRS1586374	blood
SRS1586334	blood	SRS1586375	blood
SRS1586335	blood	SRS1586376	blood

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS1586337	blood	SRS1586378	blood
SRS1586338	blood	SRS1586379	blood
SRS1586336	blood	SRS1586377	blood
SRS1586380	blood	SRS1586419	blood
SRS1586381	blood	SRS1586420	blood
SRS1586382	blood	SRS1586421	blood
SRS1586383	blood	SRS1586422	blood
SRS1586384	blood	SRS1586423	blood
SRS1586385	blood	SRS1586424	blood
SRS1586386	blood	SRS1586425	blood
SRS1586387	blood	SRS1586426	blood
SRS1586388	blood	SRS1586427	blood
SRS1586389	blood	SRS1586429	blood
SRS1586390	blood	SRS1586430	blood
SRS1586391	blood	SRS1586431	blood
SRS1586392	blood	SRS1586432	blood
SRS1586393	blood	SRS1586433	blood
SRS1586394	blood	SRS1586434	blood
SRS1586395	blood	SRS1586435	blood
SRS1586396	blood	SRS1586436	blood
SRS1586397	blood	SRS1586437	blood
SRS1586398	blood	SRS1586438	blood
SRS1586399	blood	SRS1586439	blood
SRS1586400	blood	SRS1586440	blood
SRS1586401	blood	SRS1586441	blood
SRS1586402	blood	SRS1586442	blood
SRS1586403	blood	SRS1586443	blood
SRS1586404	blood	SRS1586444	blood
SRS1586405	blood	SRS1586446	blood
SRS1586406	blood	SRS1586447	blood
SRS1586407	blood	SRS1586448	blood
SRS1586408	blood	SRS1586449	blood
SRS1586409	blood	SRS1586450	blood
SRS1586410	blood	SRS1586451	blood
SRS1586411	blood	SRS1586452	blood
SRS1586412	blood	SRS1586453	blood
SRS1586413	blood	SRS1586454	blood
SRS1586414	blood	SRS1586455	blood
SRS1586415	blood	SRS1586456	blood

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS1586417	blood	SRS1586458	blood
SRS1586418	blood	SRS1586459	blood
SRS1586416	blood	SRS1586457	blood
SRS1586461	blood	SRS5311715	blood
SRS1586462	blood	SRS5311716	blood
SRS1586463	blood	SRS369781	brain
SRS1586464	blood	SRS893153	bronchial lymph node
SRS1586465	blood	SRS893157	bronchial lymph node
SRS1586466	blood	SRS893158	bronchial lymph node
SRS1586467	blood	SRS893159	bronchial lymph node
SRS1586468	blood	SRS893160	bronchial lymph node
SRS1586469	blood	SRS893164	bronchial lymph node
SRS4521354	blood	SRS893165	bronchial lymph node
SRS4521355	blood	SRS893166	bronchial lymph node
SRS4521357	blood	SRS893167	bronchial lymph node
SRS4521358	blood	SRS4394625	bronchial node
SRS4521359	blood	SRS4394667	bronchial node
SRS4521362	blood	SRS4394794	bronchial node
SRS4521363	blood	SRS5664093	caruncular endometrium
SRS4521365	blood	SRS5664094	caruncular endometrium
SRS4521367	blood	SRS5664095	caruncular endometrium
SRS4521368	blood	SRS5664096	caruncular endometrium
SRS4521369	blood	SRS5664097	caruncular endometrium
SRS4656062	blood	SRS5664098	caruncular endometrium
SRS4656063	blood	SRS5664099	caruncular endometrium

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS4656064	blood	SRS5664100	caruncular endometrium
SRS4656065	blood	SRS5664101	caruncular endometrium
SRS4656066	blood	SRS5664102	caruncular endometrium
SRS4656068	blood	SRS1605839	cecum
SRS4656069	blood	SRS1605869	cecum
SRS4656070	blood	ERS1460823	cerebellum
SRS4656071	blood	ERS1460824	cerebellum
SRS5311705	blood	SRS4933142	cerebellum
SRS5311706	blood	SRS4933143	cerebellum
SRS5311707	blood	SRS4933144	cerebellum
SRS5311708	blood	SRS4933139	cerebrum
SRS5311709	blood	SRS4933140	cerebrum
SRS5311710	blood	SRS4933141	cerebrum
SRS5311711	blood	SRS3177612	colon
SRS5311712	blood	SRS3177613	colon
SRS5311713	blood	SRS3177614	colon
SRS5311714	blood	SRS3177615	colon
SRS3177616	colon	SRS3177617	colon
SRS3177618	colon	SRS1605874	duodenum
SRS3177619	colon	SRS2208445	embryos
SRS3177621	colon	SRS2208446	embryos
SRS3177622	colon	SRS2208447	embryos
SRS3177623	colon	SRS2208448	embryos
SRS3177624	colon	SRS2208449	embryos
SRS3177625	colon	SRS2208450	embryos
SRS3177626	colon	ERS3655408	endometrium
SRS3177627	colon	ERS3655409	endometrium
SRS3177628	colon	ERS3655410	endometrium
SRS3177631	colon	ERS3655411	endometrium
SRS3177632	colon	ERS3655412	endometrium
SRS3177633	colon	ERS3655413	endometrium
SRS3177634	colon	ERS3655414	endometrium
SRS3177635	colon	ERS3655415	endometrium
SRS3177636	colon	ERS3655416	endometrium
SRS3177637	colon	ERS3655417	endometrium
SRS369782	colon	ERS3655418	endometrium

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS1605856	duodenum	SRS3414445	endometrium
SRS1605838	duodenum	ERS3655419	endometrium
SRS3414446	endometrium	ERS3369779	gonadal ridge
SRS3414447	endometrium	ERS3369780	gonadal ridge
SRS3414448	endometrium	ERS3369781	gonadal ridge
SRS3414449	endometrium	ERS3369782	gonadal ridge
SRS3414450	endometrium	ERS3369783	gonadal ridge
SRS3414451	endometrium	ERS3369784	gonadal ridge
SRS3414452	endometrium	ERS3369785	gonadal ridge
SRS3414453	endometrium	ERS3369786	gonadal ridge
SRS3414454	endometrium	ERS3369787	gonadal ridge
SRS3414455	endometrium	ERS3369788	gonadal ridge
SRS3414456	endometrium	ERS3369789	gonadal ridge
SRS3414457	endometrium	ERS3369790	gonadal ridge
SRS3414458	endometrium	SRS1959431	granulosa cells
SRS3414459	endometrium	SRS1959432	granulosa cells
SRS3414460	endometrium	SRS1959433	granulosa cells
SRS3414461	endometrium	SRS1959434	granulosa cells
SRS3414462	endometrium	SRS1959435	granulosa cells
SRS3414463	endometrium	SRS1959436	granulosa cells
SRS3414464	endometrium	SRS1959437	granulosa cells
SRS3414465	endometrium	SRS1959438	granulosa cells
SRS3414466	endometrium	SRS1959439	granulosa cells
SRS3414467	endometrium	SRS1959440	granulosa cells
SRS5664084	endometrium	SRS1959441	granulosa cells
SRS5664085	endometrium	SRS1959442	granulosa cells
SRS5664086	endometrium	SRS1959443	granulosa cells
SRS5664087	endometrium	SRS1959444	granulosa cells
SRS5664088	endometrium	SRS1959445	granulosa cells
SRS5664089	endometrium	SRS1959446	granulosa cells
SRS5664090	endometrium	SRS1959447	granulosa cells
SRS5664091	endometrium	SRS1959448	granulosa cells
SRS5664092	endometrium	SRS1959449	granulosa cells
SRS823780	fat	SRS1959450	granulosa cells
SRS823805	fat	SRS1959451	granulosa cells
ERS1460826	frontal cortex	SRS1959452	granulosa cells
SRS1842992	gluteus	SRS1959453	granulosa cells
ERS3369777	gonadal ridge	SRS1959454	granulosa cells
ERS3369778	gonadal ridge	SRS5664103	granulosa cells

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS5664104	granulosa cells	SRS5664105	granulosa cells
SRS5664106	granulosa cells	ERS2086205	jejunum mucosa
SRS5664107	granulosa cells	ERS2086207	jejunum mucosa
SRS5664108	granulosa cells	ERS2086208	jejunum mucosa
SRS5664109	granulosa cells	ERS2086209	jejunum mucosa
SRS5664110	granulosa cells	ERS2086210	jejunum mucosa
SRS5664111	granulosa cells	ERS2086211	jejunum mucosa
SRS2990516	heart	ERS2086212	jejunum mucosa
SRS369783	heart	ERS2086213	jejunum mucosa
ERS1460827	hypothalamus	ERS2086214	jejunum mucosa
ERS1460828	hypothalamus	ERS2086215	jejunum mucosa
SRS2477861	ileum	ERS4177628	jejunum mucosa
SRS2477864	ileum	ERS4177635	jejunum mucosa
SRS2477865	ileum	ERS4177638	jejunum mucosa
SRS2477883	ileum	ERS4177647	jejunum mucosa
SRS2477884	ileum	ERS4177648	jejunum mucosa
SRS2477886	ileum	ERS4177654	jejunum mucosa
SRS2477887	ileum	ERS4177661	jejunum mucosa
SRS2477888	ileum	ERS4177664	jejunum mucosa
SRS2477889	ileum	ERS4177670	jejunum mucosa
SRS2477901	ileum	ERS4177678	jejunum mucosa
SRS2477902	ileum	ERS4177680	jejunum mucosa
SRS5804904	inguinal adipose	ERS4177681	jejunum mucosa
SRS5804905	inguinal adipose	ERS4177684	jejunum mucosa
ERS4084952	intercostal muscle	ERS4177685	jejunum mucosa
SRS1842989	intercostal muscle	ERS4177688	jejunum mucosa
SRS5664075	isthmus	ERS4177698	jejunum mucosa
SRS5664076	isthmus	ERS4177701	jejunum mucosa
SRS5664077	isthmus	ERS4177707	jejunum mucosa
SRS5664078	isthmus	ERS4177710	jejunum mucosa
SRS5664079	isthmus	ERS4177716	jejunum mucosa
SRS5664080	isthmus	ERS4177727	jejunum mucosa
SRS5664081	isthmus	ERS4177728	jejunum mucosa
SRS5664082	isthmus	ERS4177740	jejunum mucosa
SRS5664083	isthmus	ERS4177745	jejunum mucosa
SRS1131043	jejunum distal	ERS4177748	jejunum mucosa
SRS1131044	jejunum distal	ERS4177757	jejunum mucosa
SRS1131048	jejunum middle	ERS4177765	jejunum mucosa
SRS1131064	jejunum middle	ERS4177776	jejunum mucosa

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
ERS4177780	jejunum mucosa	ERS2967923	lactating mammary gland
ERS4177781	jejunum mucosa	ERS4084926	latissimus dorsi muscle
ERS4177785	jejunum mucosa	ERS4084939	latissimus dorsi muscle
ERS4177788	jejunum mucosa	ERS1090484	liver
ERS4177800	jejunum mucosa	ERS1090485	liver
ERS4177806	jejunum mucosa	ERS1090486	liver
ERS4177809	jejunum mucosa	ERS1090512	liver
ERS4177812	jejunum mucosa	ERS1460829	liver
SRS1605858	jejunum mucosa	ERS1460830	liver
ERS4084936	kidney	ERS4177630	liver
SRS369784	kidney	ERS4177637	liver
SRS5758796	kidney	ERS4177639	liver
SRS5758797	kidney	ERS4177643	liver
SRS5758798	kidney	ERS4177644	liver
SRS5758799	kidney	ERS4177662	liver
SRS5758800	kidney	ERS4177675	liver
SRS5758801	kidney	ERS4177676	liver
SRS5758802	kidney	ERS4177682	liver
SRS5758803	kidney	ERS4177694	liver
SRS5758804	kidney	ERS4177700	liver
SRS5758805	kidney	ERS4177719	liver
SRS5758806	kidney	ERS4177721	liver
SRS5758807	kidney	ERS4177731	liver
ERS2967906	lactating mammary gland	ERS4177732	liver
ERS2967907	lactating mammary gland	ERS4177739	liver
ERS2967908	lactating mammary gland	ERS4177742	liver
ERS2967909	lactating mammary gland	ERS4177743	liver
ERS2967910	lactating mammary gland	ERS4177751	liver
ERS2967911	lactating mammary gland	ERS4177752	liver
ERS2967912	lactating mammary gland	ERS4177760	liver

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
ERS2967913	lactating mammary gland	ERS4177767	liver
ERS2967914	lactating mammary gland	ERS4177771	liver
ERS2967915	lactating mammary gland	ERS4177775	liver
ERS2967916	lactating mammary gland	ERS4177790	liver
ERS2967917	lactating mammary gland	ERS4177797	liver
ERS2967918	lactating mammary gland	ERS4177813	liver
ERS2967921	lactating mammary gland	SRS1173053	liver
ERS2967922	lactating mammary gland	SRS1173064	liver
SRS1173067	liver	SRS1199966	liver
SRS1173218	liver	SRS1199967	liver
SRS1173731	liver	SRS1860058	liver
SRS1179590	liver	SRS1860059	liver
SRS1179591	liver	SRS1860060	liver
SRS1179592	liver	SRS1860061	liver
SRS1179593	liver	SRS1860062	liver
SRS1179595	liver	SRS1860063	liver
SRS1179596	liver	SRS1860064	liver
SRS1179597	liver	SRS1860065	liver
SRS1179598	liver	SRS1860066	liver
SRS1179599	liver	SRS1860067	liver
SRS1179600	liver	SRS1860068	liver
SRS1179601	liver	SRS1860069	liver
SRS1179602	liver	SRS1860070	liver
SRS1179603	liver	SRS1860071	liver
SRS1179604	liver	SRS1860072	liver
SRS1179605	liver	SRS1860073	liver
SRS1179606	liver	SRS1860074	liver
SRS1179607	liver	SRS1860075	liver
SRS1199959	liver	SRS1860076	liver
SRS1199960	liver	SRS1860077	liver
SRS1199961	liver	SRS1860078	liver
SRS1199965	liver	SRS1860079	liver

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS1860080	liver	SRS4394655	liver
SRS1860081	liver	SRS4394656	liver
SRS1860082	liver	SRS4394657	liver
SRS1860083	liver	SRS4394659	liver
SRS1860084	liver	SRS4394691	liver
SRS1860085	liver	SRS4394697	liver
SRS1860086	liver	SRS4394698	liver
SRS1860087	liver	SRS4394699	liver
SRS1860088	liver	SRS4394710	liver
SRS1860089	liver	SRS4394720	liver
SRS1860090	liver	SRS4394753	liver
SRS1860091	liver	SRS4394760	liver
SRS1860092	liver	SRS4394761	liver
SRS1860093	liver	SRS4394762	liver
SRS1860094	liver	SRS4394766	liver
SRS1860095	liver	SRS4394814	liver
SRS2308438	liver	SRS4394835	liver
SRS2308439	liver	SRS4394838	liver
SRS2308440	liver	SRS4394839	liver
SRS2308441	liver	SRS4394842	liver
SRS369785	liver	SRS4394844	liver
SRS4101961	liver	SRS4394847	liver
SRS4101962	liver	SRS4394848	liver
SRS4101963	liver	SRS4394849	liver
SRS4101964	liver	SRS4394850	liver
SRS4101965	liver	SRS4394852	liver
SRS4101966	liver	SRS4394858	liver
SRS4307220	liver	SRS4394879	liver
SRS4307221	liver	SRS4394880	liver
SRS4307222	liver	SRS4394881	liver
SRS4307223	liver	SRS4394882	liver
SRS4307224	liver	SRS4394844	liver
SRS4307225	liver	SRS4394847	liver
SRS4394629	liver	SRS4394848	liver
SRS4394630	liver	SRS4394849	liver
SRS4394631	liver	SRS4394850	liver
SRS4394651	liver	SRS4394852	liver
SRS4394652	liver	SRS4394858	liver
SRS4394654	liver	SRS4394879	liver

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS4394880	liver	SRS823782	liver
SRS4394881	liver	SRS823812	liver
SRS4394882	liver	SRS823817	liver
SRS4394884	liver	ERS1460833	longissimus dorsi
SRS4394885	liver	ERS1460834	longissimus dorsi
SRS4394886	liver	ERS4084910	longissimus dorsi
SRS4394895	liver	ERS4084911	longissimus dorsi
SRS4394897	liver	SRS3539829	longissimus dorsi
SRS4394898	liver	SRS3539830	longissimus dorsi
SRS4394928	liver	SRS3539831	longissimus dorsi
SRS718109	liver	SRS3539832	longissimus dorsi
SRS718110	liver	SRS3539833	longissimus dorsi
SRS718111	liver	SRS3539834	longissimus dorsi
SRS718112	liver	SRS3539835	longissimus dorsi
SRS718113	liver	SRS3539836	longissimus dorsi
SRS718114	liver	SRS3539837	longissimus dorsi
SRS718115	liver	SRS3539838	longissimus dorsi
SRS718116	liver	SRS3539839	longissimus dorsi
SRS718117	liver	SRS3539840	longissimus dorsi
SRS718118	liver	SRS3539841	longissimus dorsi
SRS718119	liver	SRS3539842	longissimus dorsi
SRS718126	liver	SRS3539843	longissimus dorsi
SRS718128	liver	SRS3539844	longissimus dorsi
SRS718129	liver	SRS3539845	longissimus dorsi
SRS718131	liver	SRS3539846	longissimus dorsi
SRS718133	liver	SRS3539847	longissimus dorsi
SRS718135	liver	SRS3744994	longissimus dorsi
SRS718142	liver	SRS3745001	longissimus dorsi
SRS718144	liver	SRS3745014	longissimus dorsi
SRS718146	liver	SRS3745021	longissimus dorsi
SRS718147	liver	SRS3745033	longissimus dorsi
SRS718148	liver	SRS3745048	longissimus dorsi
SRS718149	liver	SRS3745049	longissimus dorsi
SRS718151	liver	SRS4144369	longissimus dorsi
SRS718152	liver	SRS4144370	longissimus dorsi
SRS718212	liver	SRS4144371	longissimus dorsi
SRS718213	liver	SRS4620797	longissimus dorsi
SRS718221	liver	SRS4620798	longissimus dorsi
SRS718223	liver	SRS4620799	longissimus dorsi

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS4620800	longissimus dorsi	SRS1179754	mammary gland
SRS4620801	longissimus dorsi	SRS1179755	mammary gland
SRS4620802	longissimus dorsi	SRS1179756	mammary gland
SRS857203	longissimus dorsi	SRS1179757	mammary gland
SRS1930464	lung	SRS1179758	mammary gland
SRS369786	lung	SRS1179759	mammary gland
ERS1460831	lung left lobe	SRS1179760	mammary gland
ERS1460832	lung left lobe	SRS1179761	mammary gland
SRS4394664	lung lessions	SRS2642682	mammary gland
SRS4394795	lung lessions	SRS3102290	mammary gland
ERS4084912	lymph node	SRS3102299	mammary gland
SRS1142729	mammary gland	SRS3102300	mammary gland
SRS1158665	mammary gland	SRS3102301	mammary gland
SRS1179727	mammary gland	SRS3102302	mammary gland
SRS1179728	mammary gland	SRS3102303	mammary gland
SRS1179729	mammary gland	SRS3102304	mammary gland
SRS1179730	mammary gland	SRS3102305	mammary gland
SRS1179731	mammary gland	SRS3102306	mammary gland
SRS1179733	mammary gland	SRS3594412	mammary gland
SRS1179734	mammary gland	SRS3594417	mammary gland
SRS1179735	mammary gland	SRS5613601	mammary gland
SRS1179736	mammary gland	SRS5613602	mammary gland
SRS1179737	mammary gland	SRS5613603	mammary gland
SRS1179738	mammary gland	SRS5613604	mammary gland
SRS1179739	mammary gland	SRS5613605	mammary gland
SRS1179740	mammary gland	SRS5613606	mammary gland
SRS1179741	mammary gland	SRS5613607	mammary gland
SRS1179742	mammary gland	SRS5613608	mammary gland
SRS1179743	mammary gland	SRS5613609	mammary gland
SRS1179744	mammary gland	SRS5613610	mammary gland
SRS1179745	mammary gland	SRS5613611	mammary gland
SRS1179746	mammary gland	SRS5613612	mammary gland
SRS1179747	mammary gland	SRS5613613	mammary gland
SRS1179748	mammary gland	SRS5613614	mammary gland
SRS1179749	mammary gland	SRS5613615	mammary gland
SRS1179750	mammary gland	SRS5613616	mammary gland
SRS1179751	mammary gland	SRS5613617	mammary gland
SRS1179752	mammary gland	SRS5613618	mammary gland

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS4394750	median emminence hypothalamus	ERS1119111	muscle
SRS4394773	median emminence hypothalamus	ERS1119112	muscle
SRS4394783	median emminence hypothalamus	ERS1119113	muscle
SRS4394812	median emminence hypothalamus	ERS1119114	muscle
SRS4394887	median emminence hypothalamus	ERS1119115	muscle
SRS4394932	median emminence hypothalamus	ERS477546	muscle
SRS1111854	milk cells	ERS477548	muscle
SRS1111999	milk cells	ERS477550	muscle
SRS1112102	milk cells	ERS477551	muscle
SRS1112121	milk cells	SRS718155	muscle
SRS1206437	milk cells	SRS718156	muscle
SRS1206446	milk cells	SRS718158	muscle
SRS1736085	milk cells	SRS718160	muscle
SRS1736207	milk cells	SRS718162	muscle
SRS1736209	milk cells	SRS718163	muscle
SRS1736211	milk cells	SRS718167	muscle
SRS1736217	milk cells	SRS718171	muscle
SRS1736242	milk cells	SRS718172	muscle
SRS2715750	milk cells	SRS718193	muscle
SRS2715751	milk cells	SRS718216	muscle
SRS2715752	milk cells	SRS718218	muscle
SRS2715753	milk cells	SRS823786	muscle
SRS2715754	milk cells	SRS823806	muscle
SRS2715755	milk cells	ERS4084901	omental fat pad
SRS2715756	milk cells	SRS5753459	oocyte
SRS2715757	milk cells	SRS5753460	oocyte
ERS1119109	muscle	SRS5753461	oocyte

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
ERS1119110	muscle	SRS5753462	oocyte
SRS5753463	oocyte	SRS3471100	pbmc
SRS5753464	oocyte	SRS3471101	pbmc
SRS5753465	oocyte	SRS3471102	pbmc
SRS5753466	oocyte	SRS3471103	pbmc
SRS5753467	oocyte	SRS3471104	pbmc
SRS5753468	oocyte	SRS3471105	pbmc
SRS5753469	oocyte	SRS3471106	pbmc
SRS5753470	oocyte	SRS3471107	pbmc
SRS5753471	oocyte	SRS3471108	pbmc
SRS5753472	oocyte	SRS1072520	pharyngeal tonsil
SRS5753473	oocyte	SRS4394871	pharyngeal tonsil
SRS5753474	oocyte	SRS646087	pituitary gland
SRS5753475	oocyte	SRS823807	pituitary gland
SRS3471097	pbmc	SRS823815	pituitary gland
SRS3471098	pbmc	SRS877488	rectum
SRS3471099	pbmc	SRS877489	rectum
SRS3471100	pbmc	SRS877490	rectum
SRS3471101	pbmc	SRS877491	rectum
SRS3471102	pbmc	SRS877492	rectum
SRS3471103	pbmc	SRS877493	rectum
SRS3471104	pbmc	SRS877494	rectum
SRS3471105	pbmc	SRS877495	rectum
SRS3471106	pbmc	SRS877496	rectum
SRS5753463	oocyte	SRS4394668	retropharyngeal nodes
SRS5753464	oocyte	SRS4394796	retropharyngeal nodes
SRS5753465	oocyte	ERS4177626	rumen
SRS5753466	oocyte	ERS4177627	rumen
SRS5753467	oocyte	ERS4177645	rumen
SRS5753468	oocyte	ERS4177651	rumen
SRS5753469	oocyte	ERS4177652	rumen
SRS5753470	oocyte	ERS4177655	rumen
SRS5753471	oocyte	ERS4177660	rumen
SRS5753472	oocyte	ERS4177667	rumen
SRS5753473	oocyte	ERS4177671	rumen
SRS5753474	oocyte	ERS4177677	rumen
SRS5753475	oocyte	ERS4177687	rumen

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS3471097	pbmc	ERS4177691	rumen
SRS3471098	pbmc	ERS4177693	rumen
SRS3471099	pbmc	ERS4177697	rumen
ERS4177699	rumen	SRS3717227	semen
ERS4177703	rumen	ERS4084932	semimembranosus muscle
ERS4177704	rumen	ERS4084959	semimembranosus muscle
ERS4177711	rumen	SRS4394622	shoulder muscle (neck muscle)
ERS4177729	rumen	SRS4394674	shoulder muscle (neck muscle)
ERS4177730	rumen	SRS4394717	shoulder muscle (neck muscle)
ERS4177738	rumen	SRS4394759	shoulder muscle (neck muscle)
ERS4177750	rumen	SRS4394785	shoulder muscle (neck muscle)
ERS4177754	rumen	SRS4394813	shoulder muscle (neck muscle)
ERS4177756	rumen	SRS4394929	shoulder muscle (neck muscle)
ERS4177759	rumen	ERS4177623	skeletal muscle (other)
ERS4177772	rumen	ERS4177625	skeletal muscle (other)
ERS4177773	rumen	ERS4177629	skeletal muscle (other)
ERS4177787	rumen	ERS4177634	skeletal muscle (other)
ERS4177791	rumen	ERS4177642	skeletal muscle (other)
ERS4177792	rumen	ERS4177657	skeletal muscle (other)
ERS4177793	rumen	ERS4177658	skeletal muscle (other)
ERS4177798	rumen	ERS4177659	skeletal muscle (other)
ERS4177802	rumen	ERS4177663	skeletal muscle (other)

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
ERS4177805	rumen	ERS4177666	skeletal muscle (other)
SRS2477850	rumen	ERS4177674	skeletal muscle (other)
SRS2477851	rumen	ERS4177692	skeletal muscle (other)
SRS2477857	rumen	ERS4177702	skeletal muscle (other)
SRS2477871	rumen	ERS4177705	skeletal muscle (other)
SRS2477874	rumen	ERS4177706	skeletal muscle (other)
SRS2477879	rumen	ERS4177715	skeletal muscle (other)
SRS2477890	rumen	ERS4177722	skeletal muscle (other)
SRS2477891	rumen	ERS4177723	skeletal muscle (other)
SRS2477893	rumen	ERS4177733	skeletal muscle (other)
SRS2477895	rumen	ERS4177735	skeletal muscle (other)
SRS2477899	rumen	ERS4177741	skeletal muscle (other)
SRS1842986	scapula muscle	ERS4177744	skeletal muscle (other)
SRS3717222	semen	ERS4177753	skeletal muscle (other)
SRS3717223	semen	ERS4177755	skeletal muscle (other)
SRS3717224	semen	ERS4177768	skeletal muscle (other)
SRS3717225	semen	ERS4177769	skeletal muscle (other)
SRS3717226	semen	ERS4177777	skeletal muscle (other)
ERS4177778	skeletal muscle (other)	SRS1689527	skeletal muscle
ERS4177783	skeletal muscle (other)	SRS1689528	skeletal muscle

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS1743676	skeletal muscle	SRS1743677	skeletal muscle
ERS4177794	skeletal muscle (other)	SRS1689529	skeletal muscle
ERS4177799	skeletal muscle (other)	SRS1689530	skeletal muscle
ERS4177811	skeletal muscle (other)	SRS1689531	skeletal muscle
ERS4177814	skeletal muscle (other)	SRS1743674	skeletal muscle
SRS1689526	skeletal muscle	SRS1743675	skeletal muscle
SRS1743678	skeletal muscle	SRS2645551	supramammary lymph node
SRS1743679	skeletal muscle	SRS2645559	supramammary lymph node
SRS1743680	skeletal muscle	SRS2645678	supramammary lymph node
SRS1854058	skeletal muscle	SRS2645681	supramammary lymph node
SRS1854059	skeletal muscle	SRS2645682	supramammary lymph node
SRS1854060	skeletal muscle	SRS5110884	supramammary lymph node
SRS1854061	skeletal muscle	SRS5110885	supramammary lymph node
SRS369787	skeletal muscle	SRS5110886	supramammary lymph node
SRS4621162	skeletal muscle	SRS5110887	supramammary lymph node
SRS4621163	skeletal muscle	SRS5110888	supramammary lymph node
SRS4621164	skeletal muscle	SRS5110889	supramammary lymph node
SRS4621165	skeletal muscle	SRS3021382	testis
SRS4621166	skeletal muscle	SRS3021383	testis
SRS4621167	skeletal muscle	SRS1875095	trabecular meshwork
SRS4394752	small intestine	SRS1875096	trabecular meshwork
SRS4394817	small intestine	SRS1875097	trabecular meshwork

NCBI SRA ID	Tissue	NCBI SRA ID	Tissue
SRS4394861	small intestine	SRS1875099	trabecular meshwork
SRS4394855	small intestine	SRS1875098	trabecular meshwork
SRS4394933	small intestine	SRS1875100	trabecular meshwork
SRS1605878	spiral colon	SRS1875101	trabecular meshwork
ERS1460835	spleen	SRS1875102	trabecular meshwork
ERS1460836	spleen	SRS1875103	trabecular meshwork
SRS1930534	spleen	SRS1875104	trabecular meshwork
SRS1930536	spleen	SRS1875105	trabecular meshwork
SRS369788	spleen	SRS1875106	trabecular meshwork
ERS1460821	subcutaneous adipose	SRS1179576	udder
ERS1460822	subcutaneous adipose	SRS1179577	udder
ERS4084913	subcutaneous adipose	SRS1179578	udder
SRS2645514	supramammary lymph node	SRS1179579	udder
SRS1179580	udder	SRS5175006	udder
SRS1179581	udder	SRS5175007	udder
SRS1179582	udder	SRS1206435	white blood cells
SRS1179583	udder	SRS1206444	white blood cells
SRS1179584	udder	SRS1206447	white blood cells
SRS1179585	udder	SRS1179617	udder
SRS1179586	udder	SRS1179618	udder
SRS1179587	udder	SRS1179616	udder
SRS1179588	udder		

Table S2: Sample number of each tissue

tissue	num	tissue	num
blood	250	kidney	14
liver	192	pbmc	12
mammary gland	66	supramammary lymph node	12
skeletal muscle	57	trabecular meshwork	12
jejunum mucosa	47	ileum	11
rumen	45	testis	11
endometrium	44	caruncular endometrium	10
longissimus dorsi	40	ampulla	9
granulosa cells	33	bronchial lymph node	9
muscle	25	isthmus	9
colon	24	rectum	9
milk cells	20	shoulder muscle (neck muscle)	7
udder	18	anterior pituitary	6
oocyte	17	embryos	6
lactating mammary gland	16	median eminence hypothalamus	6
gonadal ridge	14	semen	6
cerebellum	5	frontal cortex	1
small intestine	5	gluteus	1
spleen	5	lymph node	1
bronchial node	3	omental fat pad	1
cerebrum	3	scapula muscle	1
duodenum	3	spiral colon	1
pituitary gland	3	latissimus dorsi muscle	2
subcutaneous adipose	3	lung	2
white blood cells	3	lung left lobe	2
cecum	2	lung lesions	2
fat	2	pharyngeal tonsil	2
heart	2	retropharyngeal nodes	2
hypothalamus	2	semimembranosus muscle	2
inguinal adipose	2	adrenal medulla	1
intercostal muscle	2	jejunum middle	2
jejunum distal	2		

Table S3: Tissue specific expression gene of main organs compare
group

Tissue	ID	ID	ID
cele- bellum	ENSBTAG00000000385	ENSBTAG000000005560	ENSBTAG000000018917
	ENSBTAG00000000570	ENSBTAG000000005562	ENSBTAG000000019021
	ENSBTAG00000000821	ENSBTAG000000005938	ENSBTAG000000019159
	ENSBTAG00000001755	ENSBTAG000000011504	ENSBTAG000000019807
	ENSBTAG00000001918	ENSBTAG000000011530	ENSBTAG000000020061
	ENSBTAG00000001976	ENSBTAG000000011651	ENSBTAG000000020679
	ENSBTAG00000000385	ENSBTAG000000013262	ENSBTAG000000020989
	ENSBTAG00000000570	ENSBTAG000000013502	ENSBTAG000000024525
	ENSBTAG00000000821	ENSBTAG000000013632	ENSBTAG000000025246
	ENSBTAG00000001755	ENSBTAG000000014749	ENSBTAG000000025522
	ENSBTAG00000001918	ENSBTAG000000014751	ENSBTAG000000030775
	ENSBTAG00000001976	ENSBTAG000000014829	ENSBTAG000000032077
	ENSBTAG00000002084	ENSBTAG000000015194	ENSBTAG000000033056
	ENSBTAG00000002134	ENSBTAG000000015872	ENSBTAG000000034069
	ENSBTAG00000002297	ENSBTAG000000015885	ENSBTAG000000034140
	ENSBTAG00000002471	ENSBTAG000000016381	ENSBTAG000000040042
	ENSBTAG00000003498	ENSBTAG000000017039	ENSBTAG000000043978
	ENSBTAG00000003658	ENSBTAG000000017318	ENSBTAG000000044043
	ENSBTAG00000004224	ENSBTAG000000017529	ENSBTAG000000044181
	ENSBTAG00000004399	ENSBTAG000000018237	ENSBTAG000000044202
ENSBTAG000000046271	ENSBTAG000000051995	ENSBTAG000000050940	
ENSBTAG000000046720	ENSBTAG000000053400	ENSBTAG000000055214	
ENSBTAG000000047595	ENSBTAG000000048442	ENSBTAG00000007216	
cerebrum	ENSBTAG00000000109	ENSBTAG000000002950	ENSBTAG000000007259
	ENSBTAG00000000219	ENSBTAG000000003121	ENSBTAG000000007791
	ENSBTAG00000000309	ENSBTAG000000003580	ENSBTAG000000008571
	ENSBTAG00000001187	ENSBTAG000000004206	ENSBTAG000000008726
	ENSBTAG00000001404	ENSBTAG000000004475	ENSBTAG000000009650
	ENSBTAG00000001474	ENSBTAG000000005031	ENSBTAG000000010448
	ENSBTAG00000001870	ENSBTAG000000005236	ENSBTAG000000010657
	ENSBTAG00000001975	ENSBTAG000000006620	ENSBTAG000000011170
	ENSBTAG00000002036	ENSBTAG000000006691	ENSBTAG000000011375
	ENSBTAG00000002192	ENSBTAG000000007156	ENSBTAG000000007216
	ENSBTAG00000002448	ENSBTAG000000007166	ENSBTAG000000007259
	ENSBTAG000000011562	ENSBTAG000000013027	ENSBTAG000000017312
	ENSBTAG000000011579	ENSBTAG000000013715	ENSBTAG000000017507
	ENSBTAG000000012039	ENSBTAG000000014424	ENSBTAG000000017716

Tissue	ID	ID	ID
cerebrum	ENSBTAG00000012621	ENSBTAG00000014538	ENSBTAG00000015936
	ENSBTAG00000012628		
endome- trium	ENSBTAG00000002849	ENSBTAG00000008113	ENSBTAG00000010875
	ENSBTAG00000005772	ENSBTAG00000008452	ENSBTAG00000018645
	ENSBTAG00000007740	ENSBTAG00000008858	ENSBTAG00000021458
heart	ENSBTAG00000002515	ENSBTAG00000017509	ENSBTAG00000005974
	ENSBTAG00000002574	ENSBTAG00000018167	ENSBTAG00000006902
	ENSBTAG00000002651	ENSBTAG00000019327	ENSBTAG00000008394
	ENSBTAG00000002853	ENSBTAG00000021132	ENSBTAG00000014885
	ENSBTAG00000002898	ENSBTAG00000038462	ENSBTAG00000046512
	ENSBTAG00000005048	ENSBTAG00000045789	ENSBTAG00000005333
hypo- thalamus	ENSBTAG00000000189	ENSBTAG00000009354	ENSBTAG00000017524
	ENSBTAG00000000490	ENSBTAG00000009774	ENSBTAG00000017818
	ENSBTAG00000000835	ENSBTAG00000010146	ENSBTAG00000017836
	ENSBTAG00000001075	ENSBTAG00000010860	ENSBTAG00000018297
	ENSBTAG00000001558	ENSBTAG00000011007	ENSBTAG00000019114
	ENSBTAG00000001776	ENSBTAG00000011740	ENSBTAG00000019132
	ENSBTAG00000002414	ENSBTAG00000012222	ENSBTAG00000020213
	ENSBTAG00000002591	ENSBTAG00000012535	ENSBTAG00000022449
	ENSBTAG00000002744	ENSBTAG00000012912	ENSBTAG00000023600
	ENSBTAG00000003176	ENSBTAG00000013732	ENSBTAG00000023784
	ENSBTAG00000003511	ENSBTAG00000014530	ENSBTAG00000025213
	ENSBTAG00000004574	ENSBTAG00000014832	ENSBTAG00000025762
	ENSBTAG00000005522	ENSBTAG00000015837	ENSBTAG00000032709
	ENSBTAG00000006977	ENSBTAG00000016138	ENSBTAG00000038139
	ENSBTAG00000006990	ENSBTAG00000017209	ENSBTAG00000038347
	ENSBTAG00000007393	ENSBTAG00000017435	ENSBTAG00000046401
	ENSBTAG00000007397	ENSBTAG00000017524	ENSBTAG00000050314
	ENSBTAG00000007890	ENSBTAG00000017818	ENSBTAG00000050448
	ENSBTAG00000000189	ENSBTAG00000017836	ENSBTAG00000017524
	ENSBTAG00000000490	ENSBTAG00000018297	ENSBTAG00000017818
	ENSBTAG00000000835	ENSBTAG00000019114	ENSBTAG00000017836
	ENSBTAG00000001075	ENSBTAG00000009354	ENSBTAG00000018297
	ENSBTAG00000001558	ENSBTAG00000009774	ENSBTAG00000019114
	ENSBTAG00000001776	ENSBTAG00000010146	ENSBTAG00000019132
	ENSBTAG00000002414	ENSBTAG00000010860	ENSBTAG00000020213
	ENSBTAG00000002591	ENSBTAG00000011007	ENSBTAG00000022449
	ENSBTAG00000002744	ENSBTAG00000011740	ENSBTAG00000023600
	ENSBTAG00000003176	ENSBTAG00000012222	ENSBTAG00000023784
	ENSBTAG00000003511	ENSBTAG00000012535	ENSBTAG00000025213
	ENSBTAG00000004574	ENSBTAG00000012912	ENSBTAG00000025762
ENSBTAG00000007890	ENSBTAG00000017209	ENSBTAG00000050448	

Tissue	ID	ID	ID
hypo-thalamus	ENSBTAG00000005522	ENSBTAG00000013732	ENSBTAG00000032709
	ENSBTAG00000006977	ENSBTAG00000014530	ENSBTAG00000038139
	ENSBTAG00000006990	ENSBTAG00000014832	ENSBTAG00000038347
	ENSBTAG00000007393	ENSBTAG00000015837	ENSBTAG00000046401
	ENSBTAG00000007397	ENSBTAG00000016138	ENSBTAG00000050314
hypo-thalamus	ENSBTAG00000008079	ENSBTAG00000017435	ENSBTAG00000050765
	ENSBTAG00000052407	ENSBTAG00000052924	ENSBTAG00000054648
	ENSBTAG00000052804	ENSBTAG00000054574	ENSBTAG00000055290
kidney	ENSBTAG00000000375	ENSBTAG00000011400	ENSBTAG00000019734
	ENSBTAG00000000480	ENSBTAG00000011454	ENSBTAG00000019787
	ENSBTAG00000000638	ENSBTAG00000011930	ENSBTAG00000021799
	ENSBTAG00000000815	ENSBTAG00000012297	ENSBTAG00000023169
	ENSBTAG00000001077	ENSBTAG00000012817	ENSBTAG00000024884
	ENSBTAG00000001110	ENSBTAG00000013245	ENSBTAG00000031242
	ENSBTAG00000002219	ENSBTAG00000013980	ENSBTAG00000038682
	ENSBTAG00000003061	ENSBTAG00000014380	ENSBTAG00000046339
	ENSBTAG00000004286	ENSBTAG00000014966	ENSBTAG00000049509
	ENSBTAG00000006486	ENSBTAG00000015184	ENSBTAG00000049889
	ENSBTAG00000006974	ENSBTAG00000015408	ENSBTAG00000050791
	ENSBTAG00000007749	ENSBTAG00000015466	ENSBTAG00000050986
	ENSBTAG00000007783	ENSBTAG00000015595	ENSBTAG00000051448
	ENSBTAG00000008088	ENSBTAG00000015801	ENSBTAG00000052374
	ENSBTAG00000008130	ENSBTAG00000016810	ENSBTAG00000055145
	ENSBTAG00000008222	ENSBTAG00000016929	ENSBTAG00000019734
	ENSBTAG00000008355	ENSBTAG00000017911	ENSBTAG00000019787
	ENSBTAG00000009077	ENSBTAG00000017925	ENSBTAG00000021799
	ENSBTAG00000009086	ENSBTAG00000018501	ENSBTAG00000023169
	ENSBTAG00000009230	ENSBTAG00000019040	ENSBTAG00000024884
	ENSBTAG00000000375	ENSBTAG00000011400	ENSBTAG00000031242
	ENSBTAG00000000480	ENSBTAG00000011454	ENSBTAG00000038682
	ENSBTAG00000000638	ENSBTAG00000011930	ENSBTAG00000046339
	ENSBTAG00000000815	ENSBTAG00000012297	ENSBTAG00000049509
	ENSBTAG00000001077	ENSBTAG00000012817	ENSBTAG00000049889
	ENSBTAG00000001110	ENSBTAG00000013245	ENSBTAG00000050791
	ENSBTAG00000002219	ENSBTAG00000013980	ENSBTAG00000050986
	ENSBTAG00000003061	ENSBTAG00000014380	ENSBTAG00000051448
	ENSBTAG00000004286	ENSBTAG00000014966	ENSBTAG00000052374
	ENSBTAG00000006486	ENSBTAG00000015184	ENSBTAG00000055145
	ENSBTAG00000006974	ENSBTAG00000015408	ENSBTAG00000018501
	ENSBTAG00000007749	ENSBTAG00000015466	ENSBTAG00000019040
	ENSBTAG00000007783	ENSBTAG00000015595	ENSBTAG00000009086
ENSBTAG00000008088	ENSBTAG00000015801	ENSBTAG00000009230	

Tissue	ID	ID	ID
kidney	ENSBTAG00000008130	ENSBTAG00000016810	ENSBTAG00000009077
	ENSBTAG00000008222	ENSBTAG00000016929	ENSBTAG00000017925
	ENSBTAG00000008355	ENSBTAG00000017911	
liver	ENSBTAG00000000011	ENSBTAG00000009212	ENSBTAG00000034189
	ENSBTAG00000000123	ENSBTAG00000009215	ENSBTAG00000034501
	ENSBTAG00000000229	ENSBTAG00000009350	ENSBTAG00000037890
	ENSBTAG00000000259	ENSBTAG00000009501	ENSBTAG00000038549
	ENSBTAG00000000522	ENSBTAG00000010215	ENSBTAG00000039157
	ENSBTAG00000001247	ENSBTAG00000011062	ENSBTAG00000039319
	ENSBTAG00000001265	ENSBTAG00000011569	ENSBTAG00000039337
	ENSBTAG00000001271	ENSBTAG00000011720	ENSBTAG00000039463
	ENSBTAG00000001392	ENSBTAG00000011881	ENSBTAG00000039643
	ENSBTAG00000001658	ENSBTAG00000011944	ENSBTAG00000039647
	ENSBTAG00000001893	ENSBTAG00000012164	ENSBTAG00000045575
	ENSBTAG00000002030	ENSBTAG00000012210	ENSBTAG00000045969
	ENSBTAG00000002110	ENSBTAG00000012234	ENSBTAG00000046152
	ENSBTAG00000002642	ENSBTAG00000012280	ENSBTAG00000046768
	ENSBTAG00000002799	ENSBTAG00000012467	ENSBTAG00000047655
	ENSBTAG00000002878	ENSBTAG00000012794	ENSBTAG00000047833
	ENSBTAG00000003282	ENSBTAG00000012896	ENSBTAG00000048013
	ENSBTAG00000003523	ENSBTAG00000013333	ENSBTAG00000049209
	ENSBTAG00000003774	ENSBTAG00000013596	ENSBTAG00000049291
	ENSBTAG00000003775	ENSBTAG00000013718	ENSBTAG00000049436
	ENSBTAG00000003950	ENSBTAG00000021535	ENSBTAG00000049886
	ENSBTAG00000004003	ENSBTAG00000022329	ENSBTAG00000050047
	ENSBTAG00000004215	ENSBTAG00000023384	ENSBTAG00000050173
	ENSBTAG00000004303	ENSBTAG00000023652	ENSBTAG00000051701
	ENSBTAG00000004384	ENSBTAG00000023666	ENSBTAG00000051713
	ENSBTAG00000004840	ENSBTAG00000023941	ENSBTAG00000051761
	ENSBTAG00000005122	ENSBTAG00000026501	ENSBTAG00000051904
	ENSBTAG00000005386	ENSBTAG00000026502	ENSBTAG00000052342
	ENSBTAG00000005419	ENSBTAG00000026666	ENSBTAG00000053068
	ENSBTAG00000005653	ENSBTAG00000026748	ENSBTAG00000053777
	ENSBTAG00000005797	ENSBTAG00000026885	ENSBTAG00000054761
	ENSBTAG00000005910	ENSBTAG00000030297	ENSBTAG00000054838
	ENSBTAG00000005963	ENSBTAG00000030423	ENSBTAG00000054846
	ENSBTAG00000006991	ENSBTAG00000030585	ENSBTAG00000055078
	ENSBTAG00000007073	ENSBTAG00000030683	ENSBTAG00000008505
	ENSBTAG00000007273	ENSBTAG00000031595	ENSBTAG00000008612
ENSBTAG00000007690	ENSBTAG00000031647	ENSBTAG00000034139	
ENSBTAG00000007975	ENSBTAG00000032152	ENSBTAG00000034154	
ENSBTAG00000008039	ENSBTAG00000032656		

Tissue	ID	ID	ID
lung	ENSBTAG00000000541	ENSBTAG00000014589	ENSBTAG00000033460
	ENSBTAG00000000802	ENSBTAG00000015737	ENSBTAG00000038810
	ENSBTAG00000003871	ENSBTAG00000018473	ENSBTAG00000046421
	ENSBTAG00000004153	ENSBTAG00000018652	ENSBTAG00000046805
	ENSBTAG00000006552	ENSBTAG00000019532	ENSBTAG00000047600
	ENSBTAG00000007901	ENSBTAG00000020704	ENSBTAG00000049414
	ENSBTAG00000008483	ENSBTAG00000021230	ENSBTAG00000049560
	ENSBTAG00000009030	ENSBTAG00000023032	ENSBTAG00000050644
	ENSBTAG00000009968	ENSBTAG00000023635	ENSBTAG00000053497
	ENSBTAG00000012560	ENSBTAG00000025952	ENSBTAG00000053867
	ENSBTAG00000014420	ENSBTAG00000026812	ENSBTAG00000053933
	ENSBTAG00000014464	ENSBTAG00000032918	
rumen	ENSBTAG00000001249	ENSBTAG00000021832	ENSBTAG00000050067
	ENSBTAG00000001745	ENSBTAG00000025005	ENSBTAG00000050184
	ENSBTAG00000001925	ENSBTAG00000026181	ENSBTAG00000050344
	ENSBTAG00000003751	ENSBTAG00000026813	ENSBTAG00000050345
	ENSBTAG00000003898	ENSBTAG00000026836	ENSBTAG00000050747
	ENSBTAG00000004097	ENSBTAG00000032481	ENSBTAG00000050796
	ENSBTAG00000004381	ENSBTAG00000032538	ENSBTAG00000050898
	ENSBTAG00000004602	ENSBTAG00000038033	ENSBTAG00000051053
	ENSBTAG00000005313	ENSBTAG00000038215	ENSBTAG00000051124
	ENSBTAG00000006359	ENSBTAG00000038384	ENSBTAG00000051236
	ENSBTAG00000006655	ENSBTAG00000038617	ENSBTAG00000051389
	ENSBTAG00000008091	ENSBTAG00000039425	ENSBTAG00000052229
	ENSBTAG00000008299	ENSBTAG00000039967	ENSBTAG00000052418
	ENSBTAG00000009093	ENSBTAG00000039991	ENSBTAG00000052421
	ENSBTAG00000009223	ENSBTAG00000040019	ENSBTAG00000052608
	ENSBTAG00000011139	ENSBTAG00000040393	ENSBTAG00000052639
	ENSBTAG00000011305	ENSBTAG00000042475	ENSBTAG00000053045
	ENSBTAG00000011941	ENSBTAG00000048377	ENSBTAG00000053089
	ENSBTAG00000012275	ENSBTAG00000048451	ENSBTAG00000053103
	ENSBTAG00000012284	ENSBTAG00000048482	ENSBTAG00000053168
	ENSBTAG00000012640	ENSBTAG00000048547	ENSBTAG00000053523
	ENSBTAG00000014140	ENSBTAG00000048563	ENSBTAG00000053798
	ENSBTAG00000015056	ENSBTAG00000048672	ENSBTAG00000053892
	ENSBTAG00000015345	ENSBTAG00000048837	ENSBTAG00000053914
	ENSBTAG00000015460	ENSBTAG00000049176	ENSBTAG00000054348
	ENSBTAG00000015547	ENSBTAG00000049199	ENSBTAG00000054439
	ENSBTAG00000017490	ENSBTAG00000049223	ENSBTAG00000054530
	ENSBTAG00000017827	ENSBTAG00000049239	ENSBTAG00000054885
	ENSBTAG00000017877	ENSBTAG00000049430	ENSBTAG00000055119
	ENSBTAG00000018688	ENSBTAG00000049792	ENSBTAG00000055228

Tissue	ID	ID	ID
rumen	ENSBTAG00000019140	ENSBTAG00000049997	ENSBTAG00000055253
	ENSBTAG00000019791	ENSBTAG00000050002	ENSBTAG00000055274
	ENSBTAG00000020298	ENSBTAG00000050058	ENSBTAG00000046161
spleen	ENSBTAG00000000144	ENSBTAG00000009353	ENSBTAG00000046555
	ENSBTAG00000000277	ENSBTAG00000009381	ENSBTAG00000046813
spleen	ENSBTAG00000000306	ENSBTAG00000009537	ENSBTAG00000047675
	ENSBTAG00000000495	ENSBTAG00000009643	ENSBTAG00000047879
	ENSBTAG00000001009	ENSBTAG00000009904	ENSBTAG00000048049
	ENSBTAG00000001197	ENSBTAG00000009938	ENSBTAG00000049285
	ENSBTAG00000001198	ENSBTAG00000009943	ENSBTAG00000049399
	ENSBTAG00000001219	ENSBTAG00000010334	ENSBTAG00000049801
	ENSBTAG00000001492	ENSBTAG00000010852	ENSBTAG00000049803
	ENSBTAG00000001882	ENSBTAG00000011003	ENSBTAG00000049961
	ENSBTAG00000002041	ENSBTAG00000011019	ENSBTAG00000050088
	ENSBTAG00000002764	ENSBTAG00000011080	ENSBTAG00000050474
	ENSBTAG00000002929	ENSBTAG00000011421	ENSBTAG00000050586
	ENSBTAG00000002947	ENSBTAG00000011481	ENSBTAG00000050719
	ENSBTAG00000002951	ENSBTAG00000011489	ENSBTAG00000050921
	ENSBTAG00000003313	ENSBTAG00000011871	ENSBTAG00000051734
	ENSBTAG00000003961	ENSBTAG00000012349	ENSBTAG00000051797
	ENSBTAG00000004270	ENSBTAG00000012526	ENSBTAG00000051981
	ENSBTAG00000004273	ENSBTAG00000012668	ENSBTAG00000052147
	ENSBTAG00000004505	ENSBTAG00000012700	ENSBTAG00000052510
	ENSBTAG00000004580	ENSBTAG00000013064	ENSBTAG00000052584
	ENSBTAG00000004767	ENSBTAG00000013451	ENSBTAG00000052739
	ENSBTAG00000005049	ENSBTAG00000013536	ENSBTAG00000053421
	ENSBTAG00000005120	ENSBTAG00000013730	ENSBTAG00000053508
	ENSBTAG00000005193	ENSBTAG00000014016	ENSBTAG00000054009
	ENSBTAG00000005892	ENSBTAG00000014042	ENSBTAG00000054086
	ENSBTAG00000006452	ENSBTAG00000014199	ENSBTAG00000054106
	ENSBTAG00000006453	ENSBTAG00000036154	ENSBTAG00000054233
	ENSBTAG00000007079	ENSBTAG00000036260	ENSBTAG00000054438
	ENSBTAG00000007108	ENSBTAG00000037539	ENSBTAG00000054702
	ENSBTAG00000007626	ENSBTAG00000037951	ENSBTAG00000054741
	ENSBTAG00000007826	ENSBTAG00000038337	ENSBTAG00000055197
	ENSBTAG00000007921	ENSBTAG00000038650	ENSBTAG00000055254
	ENSBTAG00000008057	ENSBTAG00000038981	ENSBTAG00000009252
	ENSBTAG00000008092	ENSBTAG00000039160	ENSBTAG00000046076
ENSBTAG00000008555	ENSBTAG00000040607	ENSBTAG00000045767	
ENSBTAG00000008556			
testis	ENSBTAG00000000169	ENSBTAG00000024878	ENSBTAG00000048736
	ENSBTAG00000000278	ENSBTAG00000026032	ENSBTAG00000049186

Tissue	ID	ID	ID
testis	ENSBTAG00000000326	ENSBTAG00000026626	ENSBTAG00000049465
	ENSBTAG00000000502	ENSBTAG00000027420	ENSBTAG00000049471
	ENSBTAG000000001696	ENSBTAG00000027978	ENSBTAG00000049904
	ENSBTAG000000001979	ENSBTAG00000030543	ENSBTAG00000050021
	ENSBTAG000000002253	ENSBTAG00000031166	ENSBTAG00000050830
testis	ENSBTAG000000002289	ENSBTAG00000031614	ENSBTAG00000051638
	ENSBTAG000000002407	ENSBTAG00000032424	ENSBTAG00000051666
	ENSBTAG000000004401	ENSBTAG00000032687	ENSBTAG00000051760
	ENSBTAG000000004658	ENSBTAG00000032738	ENSBTAG00000051889
	ENSBTAG000000004830	ENSBTAG00000032787	ENSBTAG00000051911
	ENSBTAG000000005252	ENSBTAG00000033221	ENSBTAG00000052071
	ENSBTAG000000005567	ENSBTAG00000033352	ENSBTAG00000052938
	ENSBTAG000000005848	ENSBTAG00000033890	ENSBTAG00000053213
	ENSBTAG000000005953	ENSBTAG00000035110	ENSBTAG00000053624
	ENSBTAG000000006019	ENSBTAG00000038022	ENSBTAG00000053789
	ENSBTAG000000006293	ENSBTAG00000038204	ENSBTAG00000054034
	ENSBTAG000000006438	ENSBTAG00000038497	ENSBTAG00000054151
	ENSBTAG000000006820	ENSBTAG00000038660	ENSBTAG00000054321
	ENSBTAG0000000020127	ENSBTAG00000043973	ENSBTAG00000054345
	ENSBTAG0000000020341	ENSBTAG00000044004	ENSBTAG00000054511
	ENSBTAG0000000020402	ENSBTAG00000044167	ENSBTAG00000054753
	ENSBTAG0000000020856	ENSBTAG00000044210	ENSBTAG00000055035
	ENSBTAG0000000021189	ENSBTAG00000045653	ENSBTAG00000055100
	ENSBTAG0000000021344	ENSBTAG00000046047	ENSBTAG00000055194
	ENSBTAG0000000021814	ENSBTAG00000046565	ENSBTAG00000048505
	ENSBTAG0000000022744	ENSBTAG00000046771	ENSBTAG00000024420
	ENSBTAG0000000022837	ENSBTAG00000047652	ENSBTAG00000047917
	ENSBTAG0000000024132		
udder	ENSBTAG000000003607	ENSBTAG00000009148	ENSBTAG00000015249
	ENSBTAG000000004457	ENSBTAG00000012460	ENSBTAG00000033580
	ENSBTAG000000007695	ENSBTAG00000013417	ENSBTAG00000039787
	ENSBTAG000000009145	ENSBTAG00000014678	

Table S4: Tissue specific expression gene of muscle compare group

Tissue	ID	ID	ID	
heart	ENSBTAG00000003737	ENSBTAG00000007767	ENSBTAG00000010284	
Longissimus _dorsi	ENSBTAG00000004838	ENSBTAG00000006769	ENSBTAG00000021413	
	ENSBTAG00000004929	ENSBTAG00000013880	ENSBTAG00000021827	
	ENSBTAG00000005658	ENSBTAG00000017564	ENSBTAG00000043554	
	ENSBTAG00000005857	ENSBTAG00000020252	ENSBTAG00000052094	
fat	ENSBTAG00000000133	ENSBTAG00000019726	ENSBTAG00000006231	
	ENSBTAG00000000310	ENSBTAG00000019741	ENSBTAG00000006354	
	ENSBTAG00000000345	ENSBTAG00000020597	ENSBTAG00000006689	
	ENSBTAG00000000873	ENSBTAG00000021029	ENSBTAG00000006937	
	ENSBTAG00000000908	ENSBTAG00000021033	ENSBTAG00000007108	
	ENSBTAG00000001235	ENSBTAG00000021101	ENSBTAG00000007239	
	ENSBTAG00000001417	ENSBTAG00000000133	ENSBTAG00000007450	
	ENSBTAG00000001936	ENSBTAG00000000310	ENSBTAG00000007969	
	ENSBTAG00000011666	ENSBTAG00000000345	ENSBTAG00000008062	
	ENSBTAG00000011780	ENSBTAG00000000873	ENSBTAG00000008113	
	ENSBTAG00000011917	ENSBTAG00000000908	ENSBTAG00000008240	
	ENSBTAG00000012116	ENSBTAG00000001235	ENSBTAG00000008291	
	ENSBTAG00000012815	ENSBTAG00000001417	ENSBTAG00000008587	
	ENSBTAG00000014506	ENSBTAG00000001936	ENSBTAG00000009012	
	ENSBTAG00000014911	ENSBTAG00000001966	ENSBTAG00000009080	
	ENSBTAG00000015350	ENSBTAG00000002885	ENSBTAG00000009153	
	ENSBTAG00000015520	ENSBTAG00000002915	ENSBTAG00000009421	
	ENSBTAG00000015769	ENSBTAG00000003220	ENSBTAG00000009570	
	ENSBTAG00000016177	ENSBTAG00000003367	ENSBTAG00000009733	
	ENSBTAG00000016573	ENSBTAG00000003457	ENSBTAG00000009998	
	ENSBTAG00000017020	ENSBTAG00000003515	ENSBTAG00000010138	
	ENSBTAG00000017946	ENSBTAG00000003833	ENSBTAG00000010407	
	ENSBTAG00000019277	ENSBTAG00000003994	ENSBTAG00000010833	
	ENSBTAG00000019343	ENSBTAG00000004720	ENSBTAG00000011585	
	ENSBTAG00000019379	ENSBTAG00000004948	ENSBTAG00000019636	
	ENSBTAG00000019533	ENSBTAG00000005235	ENSBTAG00000005337	
	shoulder muscle	ENSBTAG00000000133	ENSBTAG00000019726	ENSBTAG00000032531
		ENSBTAG00000000310	ENSBTAG00000019741	ENSBTAG00000033109
ENSBTAG00000000345		ENSBTAG00000020597	ENSBTAG00000038368	
ENSBTAG00000000873		ENSBTAG00000021029	ENSBTAG00000038379	
ENSBTAG00000000908		ENSBTAG00000021033	ENSBTAG00000039340	
ENSBTAG00000001235		ENSBTAG00000021101	ENSBTAG00000039709	
ENSBTAG00000001417		ENSBTAG00000000425	ENSBTAG00000046077	
ENSBTAG00000001936		ENSBTAG00000003457	ENSBTAG00000046623	
ENSBTAG00000011917		ENSBTAG00000007135	ENSBTAG00000048369	

Tissue	ID	ID	ID
shoulder muscle	ENSBTAG00000011666	ENSBTAG00000006037	ENSBTAG000000047051
	ENSBTAG00000011780	ENSBTAG00000006760	ENSBTAG000000047975
	ENSBTAG00000012116	ENSBTAG00000008056	ENSBTAG000000048783
	ENSBTAG00000012815	ENSBTAG00000009035	ENSBTAG000000049942
	ENSBTAG00000014506	ENSBTAG00000010352	ENSBTAG000000049968
	ENSBTAG00000014911	ENSBTAG00000011023	ENSBTAG000000050435
	ENSBTAG00000015350	ENSBTAG00000011702	ENSBTAG000000051034
	ENSBTAG00000015520	ENSBTAG00000012029	ENSBTAG000000051145
	ENSBTAG00000015769	ENSBTAG00000012079	ENSBTAG000000051205
	ENSBTAG00000016177	ENSBTAG00000012816	ENSBTAG000000051483
	ENSBTAG00000016573	ENSBTAG00000014469	ENSBTAG000000051963
	ENSBTAG00000017020	ENSBTAG00000017490	ENSBTAG000000052102
	ENSBTAG00000017946	ENSBTAG00000017593	ENSBTAG000000052163
	ENSBTAG00000019277	ENSBTAG00000017740	ENSBTAG000000052512
	ENSBTAG00000019343	ENSBTAG00000027015	ENSBTAG000000052648
	ENSBTAG00000019379	ENSBTAG00000027321	ENSBTAG000000052711
	ENSBTAG00000019533	ENSBTAG00000029930	ENSBTAG000000053437
	ENSBTAG00000019636	ENSBTAG00000031814	ENSBTAG000000053711
	ENSBTAG00000019726	ENSBTAG00000032347	ENSBTAG000000053841
ENSBTAG00000053859	ENSBTAG00000053891		
skeletal muscle	ENSBTAG00000043546	ENSBTAG00000043577	ENSBTAG00000045781
	ENSBTAG00000043550	ENSBTAG00000045275	ENSBTAG00000043563
latissimus dorsi	NA		
semimembranosus muscle	NA		