



THE FACTS ABOUT CALF RECUMBENCY

WHAT IS CALF RECUMBENCY?

Calf Recumbency is a newly discovered genetic condition in Holsteins that can result in affected calves being unable to stand.

WHAT DO WE KNOW?

This unfavorable genetic condition was discovered based on research done at Penn State University, in collaboration with other researchers. This collaboration, which included ABS Global, used sequence data to discover the likely causative mutation in the CACNA1S gene on chromosome 16 (Dechow et al., 2022). It appears to be a recent mutation within a very common Holstein haplotype. More will be learned about the frequency and impact as the industry gathers more information. For more information, please read a joint statement from CDCB, Holstein Association USA, and NAAB by visiting <https://uscdcb.com/recumbency-in-holstein-calves/>

WHAT DO WE KNOW ABOUT CARRIER ANIMALS?

A gene test was developed to definitively determine animals that are carriers. ABS has test results for most of our marketed bulls, with more test results expected in the upcoming days. All early indications are that ABS has fewer carrier animals in our population than other segments of the industry. The industry is also working to develop a haplotype test, but that is currently unavailable.

WHAT ARE THE NEXT STEPS?

- 1 A system is being developed to get test results from laboratories to Holstein USA and CDCB/AGIL.
- 2 Once the industry provides a naming structure, ABS will adopt those labels. In the meantime, we have labeled ABS bulls in the results file as "Carriers" (those that are carriers) and "Free" (those that do not carry the condition).
- 3 ABS Global is committed to ensuring we provide the highest quality genetics and will continue to work with experts across the industry as we all learn more about Calf Recumbency.

HOLSTEIN CALF RECUMBENCY TEST RESULTS AS OF MAY 11, 2023

NAAB CODE	NAME	RESULT	NAAB CODE	NAME	RESULT	NAAB CODE	NAME	RESULT	NAAB CODE	NAME	RESULT
29H00916	ROCKY-RED	Free	29H018490	SEVILLE	Free	29H018724	ZEBEDEE	Carrier	29H018839	PROFOUND	Free
29H00917	SKYLINE-RED	Free	29H018495	MENTZ	Free	29H018731	BURNETT	Carrier	29H018843	PERK	Free
29H00918	TWILIGHT-RED	Free	29H018552	BOLIVIA	Free	29H018747	KOKOMO	Free	29H018847	PALACE	Free
29H00919	HAZE-P-RED	Free	29H018554	OXFORD	Free	29H018753	SANJAY	Free	29H018852	EMERGE	Free
29H017553	JOSUPER	Carrier	29H018647	BRANTLEY	Free	29H018755	DEWEY	Free	29H018853	WESTERN	Carrier
29H017947	ROWDY	Free	29H018661	OAKLAND	Free	29H018756	SHALOM-P	Free	29H018855	PLAZA	Free
29H018043	HARVEST	Free	29H018668	BOYD	Carrier	29H018775	MENTOR	Free	29H018857	UTAH	Free
29H018158	APPLEJAX	Free	29H018669	ETSY	Free	29H018783	ADVANCE	Carrier	29H018858	ENTITY	Free
29H018167	JITTERS	Free	29H018670	COSTELLO	Free	29H018788	SABER	Free	29H018870	VENTURE	Free
29H018182	SPOCK	Free	29H018691	SAMARITAN	Free	29H018790	DURABLE	Free	29H018876	ALBATROSS	Free
29H018208	SPECTRE	Free	29H018693	CRIMSON	Free	29H018795	ELEMENT	Free	29H018878	HOWLER	Free
29H018225	BURLEY	Free	29H018697	SASSAFRAS	Free	29H018803	MOSAIC	Carrier	29H018884	CROSBY	Free
29H018263	SECOYA	Free	29H018698	JERONIMO-P	Free	29H018806	BOXCAR	Free	29H018895	COMBO	Free
29H018296	ACHIEVER	Free	29H018703	GENESIS	Free	29H018812	ADVISOR	Free	29H018903	ROYAL	Free
29H018343	MEDLEY	Free	29H018705	TORONTO	Free	29H018813	DEFENSE	Free	29H018906	BILLY	Free
29H018373	PROPHECY	Free	29H018711	TORTUGA	Free	29H018834	FORTUNE	Free	29H018923	SAIGE	Free

HOLSTEIN CALF RECUMBENCY TEST RESULTS AS OF MAY 11, 2023 (CONTINUED)

NAAB CODE	NAME	RESULT
29H018929	VALUE	Free
29H018949	SPEIGHT	Free
29H018956	AUBURN	Free
29H018957	GINETTA	Carrier
29H018963	AGENCY	Free
29H018967	MERRIMAC	Carrier
29H018979	SLINGER	Free
29H018980	STANWOOD	Free
29H018984	MONTREAL	Free
29H018987	MOJO	Free
29H019000	HEROIC	Free
29H019015	MANITOBA	Free
29H019017	CREAMER	Carrier
29H019049	RADLEY	Free
29H019056	FONTANA	Free
29H019069	BAYNES*RC	Free
29H019071	MONUMENT-P	Free
29H019072	FYNN	Free
29H019079	ANISTON	Free
29H019082	DULUTH	Free
29H019087	SELTZER	Free
29H019093	ONEIDA	Free
29H019095	DAHLIN	Free
29H019098	AVATAR	Free
29H019099	JURASSIC	Free
29H019105	YUCATAN	Free
29H019117	PENSACOLA	Free
29H019125	MAVERICK	Free
29H019130	MERCEDES	Free
29H019194	SHELDON	Free
29H019217	HENDRIX	Free
29H019223	HENNING	Free
29H019226	HUGO	Free
29H019235	SEMINOLE	Free
29H019239	SUBLIME	Free
29H019241	KIMMEL	Free
29H019248	VITALITY	Free
29H019269	HERITAGE	Free
29H019271	HURDLE	Free
29H019272	JAGGER-PP	Free
29H019277	KICKOFF	Free
29H019279	TARGARYEN	Free
29H019282	KEYNOTE	Free
29H019285	SECURITY	Free
29H019294	OPTIMUM	Carrier
29H019302	CAMARO	Free
29H019309	KINETIC	Free
29H019313	EDGE-P	Free
29H019316	GALILEO	Free
29H019334	KETTLE	Free
29H019336	KIMONO	Free
29H019343	JONATHAN	Free
29H019347	CHALET	Free
29H019349	LIGHTNER	Free
29H019350	CECIL	Free
29H019360	VILLANOVA	Free
29H019363	GATEWAY	Free

NAAB CODE	NAME	RESULT
29H019367	GENERATE	Carrier
29H019368	KNIGHT	Free
29H019369	KIELER	Free
29H019373	GANDER	Carrier
29H019374	VOYAGER	Free
29H019376	ATLANTIS	Free
29H019377	KENMORE	Free
29H019379	KEARNEY	Free
29H019380	KEEVA	Free
29H019389	BONAFIDE	Free
29H019390	BOULEVARD	Free
29H019392	SURGE	Free
29H019393	BARITONE	Free
29H019395	MARVEL	Free
29H019396	CIRCA	Free
29H019398	ORACLE	Carrier
29H019403	HAWKEYE	Free
29H019405	DARBEE	Free
29H019408	NASA	Carrier
29H019412	EVIDENT	Free
29H019417	KARMINE	Free
29H019426	PHOENIX	Free
29H019433	CABO	Carrier
29H019434	BOONE	Free
29H019437	BART	Free
29H019440	TACOMA	Free
29H019442	KNOWHOW	Free
29H019448	ALONSO	Free
29H019452	VADER	Free
29H019453	ENVOY	Free
29H019455	EAGER	Free
29H019456	JEFFERSON	Free
29H019465	LEGIT	Free
29H019468	KASHI	Free
29H019476	MINNETONKA	Free
29H019479	MYLO	Free
29H019482	ALADDIN	Free
29H019485	EPISODE	Free
29H019486	KHALIL	Carrier
29H019489	PELTON	Free
29H019493	GONZAGA	Free
29H019494	CITIZEN	Free
29H019495	IMPERIAL	Free
29H019496	VERDI	Free
29H019497	BREWER	Free
29H019501	SENTIMENT	Free
29H019505	BEAL	Free
29H019510	ENVY	Free
29H019511	AJAX	Free
29H019514	DISCO	Free
29H019516	REPUBLIC	Carrier
29H019518	MENDEL-P	Free
29H019527	ARENA	Free
29H019531	CHANDLER	Free
29H019542	SMARTY	Free
29H019544	BEBOP	Free
29H019545	HARRINGTON	Free

NAAB CODE	NAME	RESULT
29H019552	BURKHART	Free
29H019555	HERCULES	Free
29H019557	ALAMO-P	Free
29H019561	ADONIS	Free
29H019563	SYDNEY	Free
29H019577	MONROE	Free
29H019580	TENNESSEE	Free
29H019581	HUNTLEY	Free
29H019584	AVERY	Free
29H019585	RUMOR	Free
29H019589	HEMI	Free
29H019600	ALDO	Free
29H019603	CALLEN	Free
29H019607	DEEKS	Free
29H019622	BROADWAY	Free
29H019623	HORTON	Free
29H019624	EXPO	Free
29H019625	LAKER	Free
29H019626	VANHALEN	Free
29H019629	WINTERFELL	Free
29H019634	HARDING	Free
29H019649	REMEDY	Free
29H019653	STUNNING	Free
29H019658	HUNTSVILLE	Free
29H019661	PERCY	Free
29H019663	HIXSON	Free
29H019664	AUGUST	Free
29H019670	VETERAN	Free
29H019672	ECHO	Free
29H019678	HOPKINS	Free
29H019681	HECTOR	Free
29H019682	HYDE	Free
29H019684	AVALON	Free
29H019685	ROSEDALE	Free
29H019686	RAVINE	Free
29H019689	REGENT	Free
29H019691	MARADONA	Free
29H019692	GORMAN	Free
29H019693	HEINSOHN	Free
29H019694	SCALABRINE	Free
29H019709	RIGGINS	Free
29H019710	SEINFELD	Free
29H019712	PIAZZA	Free
29H019713	COSTANZA	Free
29H019714	FUNKHOUSER	Free
29H019725	ALLOUEZ	Carrier
29H019727	BUTCH	Free
29H019728	GARDNER	Free
29H019734	PLATT	Free
29H019735	IMMENSE-P	Free
29H019745	HALLOCK	Free
29H019746	KG	Free
29H019747	OLAJUWON	Free
29H019755	BODIE	Free
29H019756	BONDS	Free
29H019765	JENKINS-P	Free
29H019769	SKEET	Free

NAAB CODE	NAME	RESULT
29H019770	HAWTHORN	Free
29H019773	DUFFY	Free
29H019779	HIGHPOINT	Free
29H019788	HILLSBORO	Free
29H019791	HAVEN	Free
29H019792	SEAGRAM	Free
29H019793	HERTZ	Free
29H019795	HIPHOP	Free
29H019802	RORY	Free
29H019807	ESSEX	Free
29H019808	SINATRA	Free
29H019809	DECATUR	Free
29H019810	ACADIA	Free
29H019812	MAXIMUS	Free
29H019813	MEMORIAL-P	Free
29H019815	HILLTOP	Free
29H019817	SUTTON	Free
29H019825	ADOBE	Free
29H019828	HICKORY	Free
29H019829	STORMY	Free
29H019830	SARATOGA	Free
29H019831	PUEBLO	Free
29H019832	LATITUDE-P	Free
29H019833	ADEBAYO-P	Free
29H019836	ROUSSEAU	Free
29H019839	OUTLOOK	Free
29H019840	MOORLAND-PP	Free
29H019844	SARGENT	Free
29H019845	PRO	Free
29H019847	RIMROCK*RC	Free
29H019848	GLACIER	Free
29H019849	SCORPIO	Free
29H019850	SATELLITE	Free
29H019852	HEARTLAND	Free
29H019853	HIGHTOWER	Free
29H019854	BOVECSO	Free
29H019855	HIAWATHA	Free
29H019857	GLORY	Free
29H019859	HOLIDAY	Free
29H019862	ALLEGANY	Free
29H019864	HASHTAG	Free
29H019865	ESKER-PP	Free
29H019868	HARBORT	Free
29H019870	MANDRAKE	Free
29H019871	HATHAWAY	Free
29H019873	EQUITY-P	Carrier
29H019874	ELVER-P	Free
29H019876	COBALT	Free
29H019878	BUCKHORN	Free
29H019880	BRIAR	Free
29H019881	GUSTY	Free
29H019886	GONZALEZ	Free
29H019887	EVERGLADE	Free
29H019888	FRONTIER	Free
29H019893	GLENDALE	Free
29H019894	GILLIGAN	Free
29H019899	ICEAGE	Free

HOLSTEIN CALF RECUMBENCY TEST RESULTS AS OF MAY 11, 2023 (CONTINUED)

NAAB CODE	NAME	RESULT
29H019903	ODANA	Free
29H019908	PARKVIEW	Free
29H019909	PLOVER	Free
29H019911	TOPAZ	Free
29H019912	TOPHER	Free
29H019917	CHARTER	Free
29H019926	CAMINO	Free
29H019928	HARLEM	Free
29H019930	EMERSON	Free
29H019934	GOODWIN	Free
29H019936	REVOLT	Carrier
29H019937	HUDSON	Free
29H019940	VARSITY	Free
29H019946	CANVAS	Free
29H019947	COLLINS	Free
29H019950	WARNER	Free
29H019951	LUPINE	Free
29H019954	NOVICK	Free
29H019955	GALLEY	Free
29H019956	OTEZLA-P*RC	Carrier
29H019957	EDITION-PP	Carrier
29H019958	SCATTER	Free
29H019959	LARKIN	Free
29H019961	ANDES	Free
29H019962	OGDEN-P	Free
29H019963	GILMORE	Free
29H019964	CASCADE	Carrier
29H019965	ALMIGHTY	Free
29H019966	TOPPER	Carrier
29H019969	AUTHENTIC	Free
29H019972	LEGEND	Free
29H019976	VERMONT	Free
29H019978	MISSION	Free
29H019979	HAMPTON	Carrier
29H019980	CANCUN	Carrier
29H019981	INFINITY	Free
29H019983	HURLEY	Carrier
29H019984	GIP	Free
29H019987	GOLDEN	Free
29H019989	IRONMAN	Free
29H019996	GIDEON	Free
29H019997	GOODYEAR	Free
29H020500	PRIME	Free
29H020505	SEWELL-P	Free
29H020511	LENNON-P	Free
29H020515	TYCE	Free
29H020518	PROSPECT-P	Free
29H020519	DOLCE	Free
29H020521	DAKOTA	Free
29H020522	BRIDGERTON	Free
29H020523	BRULE	Free
29H020525	ASTER	Free
29H020526	MULBERRY-P	Free
29H020529	POLARIS	Free
29H020531	ELDERON	Free
29H020533	MARINO-P	Free
29H020539	MELBY-P	Free

NAAB CODE	NAME	RESULT
29H020540	MYCROFT-P	Free
29H020541	MATRIX-P	Free
29H020542	MASERATI-P	Free
29H020543	ACKER	Free
29H020544	MAXWELL-P	Free
29H020546	MERCHANT	Free
29H020547	ABERG	Free
29H020548	MAMMOTH-P	Free
29H020549	ALEO	Free
29H020554	IRWIN	Carrier
29H020555	INSIGHT	Free
29H020556	VITO	Free
29H020559	MOTEL	Free
29H020562	EUREKA	Free
29H020564	VENOM	Free
29H020567	ZUKO	Free
29H020568	ZOOM	Free
29H020569	MATCHA-P	Free
29H020570	ALPINE	Free
29H020571	MCINTOSH	Free
29H020572	KESSEL*RC	Free
29H020573	MEADOW-PP	Free
29H020577	FLAGSTAFF-P	Free
29H020579	LAKESIDE	Free
29H020584	MANIA	Free
29H020586	PRISTINE-P	Free
29H020587	BASSETT	Free
29H020590	INNOVATION	Free
29H020593	INGRAM	Free
29H020594	INDEED	Free
29H020598	IDOL	Free
29H020599	GALLOWAY-P	Free
29H020602	HARVEY	Free
29H020607	MATINEE	Free
29H020608	WILDFIRE	Free
29H020609	MYTHICAL-P	Free
29H020613	MULTITUDE	Free
29H020615	HOBBY	Free
29H020617	WISTERIA	Free
29H020619	ABYSS	Free
29H020620	MYRIAD-P	Free
29H020621	AGENDA	Free
29H020622	WOODROW	Free
29H020623	ELGIN	Free
29H020625	MOTION-P	Free
29H020627	AERIAL	Free
29H020629	ELLIS-PP	Free
29H020630	BIGSKY	Free
29H020633	LUCRATIVE	Free
29H020634	WAUBESA	Free
29H020640	MAJOR	Free
29H020644	TREBLE	Free
29H020648	ORTEGA	Free
29H020649	MARTINI-PP	Carrier
29H020650	VOWEL	Free
29H020653	WATERLOO	Free
29H020655	AWESOME	Free

NAAB CODE	NAME	RESULT
29H020656	MENDOZA-P	Free
29H020658	VENICE	Free
29H020659	SENSATION	Free
29H020662	FAIRWAY	Free
29H020668	HEISMAN	Free
29H020670	REVIVAL	Free
29H020676	MIRAGE-PP	Free
29H020681	FALCON	Free
29H020683	LANDSLIDE	Free
29H020684	LEEDS	Free
29H020689	PIRATE	Free
29H020690	PORSCHE	Carrier
29H020693	LEO	Free
29H020695	MEMPHIS-P	Free
29H020699	MURTAUGH	Free
29H020706	MIDNIGHT-PP	Free
29H020707	MIDWAY-PP	Free
29H020708	THUNDER	Free
29H020712	GARNETT	Free
29H020714	WATSON	Free
29H020715	ARTIE	Free
29H020718	HOPPER	Free
29H020719	TAFTI	Free
29H020722	TALBOT	Free
29H020723	MAGGIORE-P	Free
29H020724	MONOGRAM-P	Free
29H020726	PANCHITO	Free
29H020727	PASCAL-PP	Free
29H020730	VESUVIUS	Free
29H020731	HUBERT	Free
29H020733	MANTELL-P	Free
29H020735	CABBIE	Free
29H020738	VINNIE	Free
29H020739	TERMINATOR	Free
29H020742	SAMWISE	Free
29H020743	ANTON	Free
29H020747	ADVENTURE	Free
29H020748	TETRUS	Free
29H020749	TERROR	Free
29H020755	ORCHARD	Free
29H020756	YORK-PP	Free
29H020759	MILITARY-P	Free
29H020760	KONG	Free
29H020761	BACARDI	Free
29H020765	TNT	Free
29H020774	MATCHUP-PP	Free
29H020775	CASH	Carrier
29H020776	BRIGHT	Free
29H020783	ASPEN	Free
29H020797	DURAND	Free
29H020798	DALLAS	Free
29H020799	DELAFIELD	Free
29H020802	GLOBE	Free
29H020805	DECREE	Free
29H020808	AVIATOR	Free
29H020811	MAYHEM-PP	Free
29H020813	WEBSITE	Free

NAAB CODE	NAME	RESULT
29H020814	TELEGRAM	Free
29H020816	GETAWAY	Carrier
29H020820	METAPHOR-P	Free
29H020823	DAYLIGHT	Free
29H020829	MESA-PP	Free
29H020833	DAYTON	Free
29H020836	GENIUS	Carrier
29H020837	LARS	Free
29H020839	BILLBOARD	Free
29H020841	KABOOM	Free
29H020842	HOMELAND	Free
29H020843	NAVIGATE	Free
29H020845	MIRAMAR-P	Free
29H020851	DELRAY	Free
29H020853	TULARE	Free
29H020859	TAFT-PP	Free
29H020860	TAKEAWAY	Free
29H020865	VANTE	Free
29H020873	DOBSKIE-P	Free
29H020888	DELTOID	Free
29H020893	BENEFIT 2	Free
29H020895	DJANGO	Free
29H020902	GENTRY	Free
29H020908	AGENT	Free
29H020911	MONTANA	Free
29H020915	DUSTY	Free
29H020916	DIRECTOR	Free
29H020918	BANZAI	Carrier
29H020924	DALUGE	Free
29H020925	GODZILLA	Free
29H020926	ICEMAN-P	Free
29H020931	MONIKER	Free
29H020932	MAINSTAY-P	Free
29H020934	MAYAPPLE	Free
29H020937	SPIRIT-P	Free
29H020939	EMPOWER	Free
29H020941	HALO	Free
29H020943	BAILE-SLICK	Free
29H020950	AVENUE	Carrier
29H020959	SONNET	Free
29H020962	DWYER	Free
29H020963	HIGHVIEW	Free
29H020972	ELKHART	Free
29H020982	DIAMOND	Free
29H020983	MILLCREEK	Free
29H021002	DORADO	Free
29H021008	ENSEMBLE-P	Free
29H021012	GORDITA	Free
29H021022	GROVES	Free
29H021050	MERIDIAN-PP	Free
29H021051	DELAN	Free
29H021053	MILKMORE	Free
29H021085	GIZMO	Free
29H021111	ESPARTO	Free
29H021119	BAYOU-PP	Free
94H00914	AFLAME-RED	Free
94H00923	RIFLE-RED	Free

HOLSTEIN CALF RECUMBENCY TEST RESULTS AS OF MAY 11, 2023 (CONTINUED)

NAAB CODE	NAME	RESULT
94H018848	ANGLER	Free
94H019526	DREAMBIG	Free
94H019669	BARBARIAN	Free
94H019766	FITTERS CHOICE	Free
94H019775	HANDSHAKE	Free
94H019826	SHOWTIME*RC	Free
94H019827	ALLEGiant-P*RC	Free
94H019837	RISQUE	Free
94H019953	MERLIN	Free
94H019988	ROLEX	Free
94H020632	DOZER	Free
94H020660	ROCKYTOP	Free
94H020785	DEBUT	Carrier
94H020786	CRUZ	Free
94H020822	HEXAGON	Free
94H020824	MIGOS	Free
94H020835	BARBER	Free
94H020891	ROLLY*RC	Free
94H020892	HIHOPE	Free
94H020945	SHADE*RC	Free
94H020946	DAZZLE	Free
94H020977	WINNERS CIRCLE-P	Free
94H021031	CELEBRATE	Free
94H021032	DIPLOMAT	Free
94H021181	LAMBEAU	Free

**For the most up-to-date test results, please visit
Bull Search at: absbullsearch.absglobal.com.**



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