

## GEPHE SUMMARY

|   |                |            |              |
|---|----------------|------------|--------------|
| CEP55 ( <a href="https://www.gephebase.org/search-criteria?/and+Gene+Gephebase=^CEP55^#gephebase-summary-title">https://www.gephebase.org/search-criteria?/and+Gene+Gephebase=^CEP55^#gephebase-summary-title</a> ) | Gephebase Gene | GP00001667 | GepheID      |
| Published   | Entry Status   | Prigent    | Main curator |

## PHENOTYPIC CHANGE

|   |                             |   |                             |
|---|-----------------------------|---|-----------------------------|
| Physiology ( <a href="https://www.gephebase.org/search-criteria?/and+Trait+Category=^Physiology^#gephebase-summary-title">https://www.gephebase.org/search-criteria?/and+Trait+Category=^Physiology^#gephebase-summary-title</a> )  | Trait Category              |   |                             |
| Recombination rate (female) ( <a href="https://www.gephebase.org/search-criteria?/and+Trait=^Recombination rate (female)^#gephebase-summary-title">https://www.gephebase.org/search-criteria?/and+Trait=^Recombination rate (female)^#gephebase-summary-title</a> )   | Trait                       |   |                             |
| Holstein cattle   | Trait State in Taxon A      |   |                             |
| Holstein cattle   | Trait State in Taxon B      |   |                             |
| Unknown   | Ancestral State             |   |                             |
| Domesticated ( <a href="https://www.gephebase.org/search-criteria?/and+Taxonomic+Status=^Domesticated^#gephebase-summary-title">https://www.gephebase.org/search-criteria?/and+Taxonomic+Status=^Domesticated^#gephebase-summary-title</a> )  | Taxonomic Status            |   |                             |
|   | Taxon A                     |   | Taxon B                     |
|   | Latin Name                  |   | Latin Name                  |
| Bos taurus<br>( <a href="https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=^Bos taurus^#gephebase-summary-title">https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=^Bos taurus^#gephebase-summary-title</a> )   | Latin Name                  | Bos taurus<br>( <a href="https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=^Bos taurus^#gephebase-summary-title">https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=^Bos taurus^#gephebase-summary-title</a> )   | Latin Name                  |
| cattle  | Common Name                 | cattle  | Common Name                 |
| Bos bovis; Bos primigenius taurus; cattle; bovine; cow; dairy cow; domestic cattle; domestic cow; Bos taurus Linnaeus, 1758; Bos Taurus   | Synonyms                    | Bos bovis; Bos primigenius taurus; cattle; bovine; cow; dairy cow; domestic cattle; domestic cow; Bos taurus Linnaeus, 1758; Bos Taurus   | Synonyms                    |
| species   | Rank                        | species   | Rank                        |
| cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Dipnotetrapodomorpha; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Boreoeutheria; Laurasiatheria; Artiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos | Lineage                     | cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Dipnotetrapodomorpha; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Boreoeutheria; Laurasiatheria; Artiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos | Lineage                     |
| Bos (oxen, cattle) - (Rank: genus)<br>( <a href="https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9903">https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9903</a> )   | Parent                      | Bos (oxen, cattle) - (Rank: genus)<br>( <a href="https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9903">https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9903</a> )   | Parent                      |
| 9913<br>( <a href="https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9913">https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9913</a> )   | NCBI Taxonomy ID            | 9913<br>( <a href="https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9913">https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id= 9913</a> )   | NCBI Taxonomy ID            |
| Yes   | is Taxon A an Intraspecies? | Yes   | is Taxon B an Intraspecies? |
| Holstein cattle   | Taxon A Description         | Holstein cattle   | Taxon B Description         |

## GENOTYPIC CHANGE

|  |                         |  |                         |
|--|-------------------------|--|-------------------------|
| CEP55  | Generic Gene Name       | E1B8M0 ( <a href="http://www.uniprot.org/uniprot/E1B8M0">http://www.uniprot.org/uniprot/E1B8M0</a> ) | UniProtKB Bos taurus    |
| -  | Synonyms                | 0  | GenebankID or UniProtKB |
| 9913.ENSBTAP00000006763<br>( <a href="http://string-db.org/newstring.cgi/show_network_section.pl?identifier=9913.ENSBTAP00000006763">http://string-db.org/newstring.cgi/show_network_section.pl?identifier=9913.ENSBTAP00000006763</a> ) | String                  |  |                         |
| -  | Sequence Similarities   |  |                         |
| -  | GO - Molecular Function |  |                         |
| -  | GO - Biological Process |  |                         |
| GO:0000281 : mitotic cytokinesis ( <a href="https://www.ebi.ac.uk/QuickGO/term/GO:0000281">https://www.ebi.ac.uk/QuickGO/term/GO:0000281</a> )   |                         |  |                         |
| GO:0014066 : regulation of phosphatidylinositol 3-kinase signaling   |                         |  |                         |

