**Table S1. Alignment of the similarity of nucleotide and amino acid sequence of *BCAS2* CDS region between Hezuo Pig and other species.**

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| --- | --- | --- | --- |
| **Species** | **Genbank No.** | **Nucleotide similarity %** | **Amino acid similarity %** |
| *Sus scrofa* (pig) | NM\_001244424.1 | 99.56 | 100 |
| *Camelus dromedarius* (Arabian camel) | XM\_031457863.1 | 95.28 | 100 |
| *Camelus bactrianus* (Bactrian camel) | XM\_010968385.2 | 95.28 | 100 |
| *Vicugna pacos* (alpaca) | XM\_015247483.2 | 94.99 | 100 |
| *Equus caballus* (horse) | XM\_001499911.6 | 94.40 | 98.23 |
| *Canis lupus familiaris* (dog) | XM\_038691841.1 | 94.01 | 99.49 |
| *Ovis aries* (sheep) | XM\_027973457.2 | 93.81 | 100 |
| *Capra hircus* (goat) | XM\_018045943.1 | 93.81 | 100 |
| *Felis catus* (domestic cat) | XM\_004001122.6 | 93.79 | 99.56 |
| *Macaca nemestrina* (pig-tailed macaque) | XM\_011736984.1 | 93.66 | 98.23 |
| *Bos taurus* (cattle) | NM\_001015540.1 | 93.51 | 100 |
| *Bos indicus* (zebu cattle) | XM\_019956763.1 | 93.36 | 100 |
| *Colobus angolensis palliates* | XM\_011933114.1 | 93.36 | 98.23 |
| *Mandrillus leucophaeus* (drill) | XM\_012000793.1 | 93.22 | 98.23 |
| *Bubalus bubalis* (water buffalo) | XM\_006064812.3 | 93.22 | 100 |
| *Canis lupus dingo* (dingo) | XM\_025453447.2 | 93.20 | 99.56 |
| *Homo sapiens* (human) | NM\_005872.3 | 93.07 | 98.23 |
| *Rattus norvegicus* (Norway rat) | NM\_001106458.2 | 92.92 | 98.23 |
| *Oryctolagus cuniculus* (rabbit) | XM\_002715751.3 | 92.04 | 98.23 |
| *Odocoileus virginianus texanus* | XM\_020875874.1 | 91.76 | 100 |
| *Panthera pardus* (leopard) | XM\_019457924.1 | 91.29 | 92.04 |
| *Mesocricetus auratus* (golden hamster) | XM\_013118129.3 | 90.18 | 99.45 |
| *Mus musculus* (house mouse) | NM\_001356330.1 | 87.80 | 90.71 |
| *Pan troglodytes* (chimpanzee) | XM\_513670.4 | 87.46 | 97.35 |