**S6 Table.** Summary of validation data of the FAM20C c.899C>T variant in Border Collies and other breeds.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Breed** | **Number of dogs** | **wt, C/C** | **het, C/T** | **mut, T/T** |
| Border Collie, total | 191 | 162 | 22 | 7  |
| Affected | 7 |  |  | 7 |
| Obligate carrier | 2 |  | 2 |   |
| Population control | 182 | 162 | 20 |   |
| Akita | 7 | 7 |  |   |
| Alaskan Malamute | 8 | 8 |  |   |
| Australian Kelpie | 22 | 22 |  |   |
| Australian Shepherd | 16 | 16 |  |   |
| Bearded Collie | 8 | 8 |  |   |
| Belgian Shepherd, groenendael | 8 | 8 |  |   |
| Belgian Shepherd, tervueren | 8 | 8 |  |   |
| Collie, rough | 8 | 8 |  |   |
| Collie, smooth | 8 | 8 |  |   |
| English Springer Spaniel | 7 | 7 |  |   |
| German Shepherd | 8 | 8 |  |   |
| Great Dane | 7 | 7 |  |   |
| Icelandic Sheepdog | 8 | 8 |  |   |
| Lancashire Heeler | 8 | 8 |  |   |
| Miniature Schnauzer | 8 | 8 |  |   |
| Parson Russell Terrier | 8 | 8 |  |   |
| Saluki | 8 | 8 |  |   |
| Shetland Sheepdog | 15 | 15 |  |   |
| Spanish Water Dog | 8 | 8 |  |   |
| Swedish Vallhund | 8 | 8 |   |   |
| Other breeds, total | 186 | 186 |  |  |