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*Supplement of*

**Molecular cloning, sequence characterization, and tissue expression analysis of three water buffalo (*Bubalus bubalis*) genes – *ST6GAL1*, *ST8SIA4*, and *SLC35C1***

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**Supplement 1.** The list of the calves urine proteins identified using MALDI-TOF mass spectrometer.

| No. | Proteins  |
|-----|---|
| 1   | 14 kDa phosphohistidine phosphatase                 |
| 2   | Alpha-1-antiproteinase precursor                    |
| 3   | Alpha-1B-glycoprotein precursor                     |
| 4   | ATP-citrate synthase isoform 2                      |
| 5   | Cathelicidin-1                                      |
| 6   | Cathelicidin-7                                      |
| 7   | Chain a, crystal structure of bovine serum albumin  |
| 8   | Chain a, nuclear transport factor 2                 |
| 9   | Clusterin   |
| 10  | Clusterin isoform 1                                 |
| 11  | COMM domain-containing protein 6                    |
| 12  | Cystatin-M precursor                                |
| 13  | Cytochrome P450 2E1                                 |
| 14  | Dermatopontin                                       |
| 15  | Ig heavy chain precursor                            |
| 16  | Ig1 heavy chain constant region                     |
| 17  | Immunoglobulin gamma 1 heavy chain constant region  |
| 18  | Retinol-binding protein 4                           |
| 19  | Serotransferrin                                     |
| 20  | Serpin A3-5 isoform X2                              |
| 21  | Serum albumin                                       |
| 22  | Sex hormone-binding globulin isoform X5             |
| 23  | Vesicular integral-membrane protein VIP36 precursor |