Table S3: Tissue-specific HvGEF gene expression based on RNAseq (James Hutton Institute) in fragments per reads per kilobase million (FPKM). Intensity of green colour indicates higher values, white shows low values, and grey fields for no available data.

| FPKM | 4-day embryos from germinating grains | Etiolated seedling (10-day) | Shoots from the seedlings (10 cm shoot stage) | Pealed epidermis (4 weeks) | Root (4 weeks) | Root (4 weeks) | Developing tillers 6 leaf stage, 3rd internode | Rachis (5 weeks pa) | Young developing inflorescences (5mm) | Developing inflorescences (1-1.5 cm) | Developing grain, bracts removed (15 DPA) | Developing grain, bracts removed (5 DPA) | Lemma (6 weeks pa) | Lodicule (6 weeks pa) | Palea (6 weeks pa) | Senescing leaf (2 months) |
|------|----------------------------------|---------------------------|-----------------------------------------------|---------------------------|--------------|--------------|-----------------------------------------------|-----------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------|
| 1    | 10                               | 7                         | 5                                             | 4                         | 8            | 8            | 9                                             | 17              | 21                                      | 23                                        | 16                                        | 15                                        | 7               | 9               | 12               | 0                |
| 3a   | 5                                | 0                         | 0                                             | 0                         | 1            | 2            | 0                                             | 0               | 0                                        | 0                                         | 0                                         | 0                                         | 0               | 0               | 0                | 0                |
| 3b   |                                  |                           |                                               |                           |              |              |                                               |                 |                                          |                                            |                                           |                                           |                 |                 |                  |                  |
| 3c   |                                  |                           |                                               |                           |              |              |                                               |                 |                                          |                                            |                                           |                                           |                 |                 |                  |                  |
| 7a   | 6                                | 1                         | 3                                             | 1                         | 4            | 11           | 1                                             | 6               | 14                                      | 11                                        | 2                                         | 1                                         | 1               | 2               | 1                | 1                |
| 7b   |                                  |                           |                                               |                           |              |              |                                               |                 |                                          |                                            |                                           |                                           |                 |                 |                  |                  |
| 9a   | 0                                | 0                         | 0                                             | 0                         | 0            | 0            | 0                                             | 0               | 0                                        | 0                                         | 9                                         | 0                                         | 17              | 0               |                  |                  |
| 9b   | 1                                | 0                         | 1                                             | 1                         | 1            | 0            | 0                                             | 0               | 0                                        | 0                                         | 0                                         | 12                                        | 1               | 19              | 1                |                  |
| 9c   | 1                                | 7                         | 1                                             | 1                         | 1            | 1            | 5                                             | 1               | 1                                        | 1                                         | 1                                         | 13                                        | 3               | 14              | 0                |                  |
| 10   | 2                                | 0                         | 0                                             | 0                         | 1            | 0            | 0                                             | 0               | 0                                        | 0                                         | 1                                         | 1                                         | 6               | 1               | 10               | 0                |
| 14   | 11                               | 20                        | 14                                            | 9                         | 6            | 7            | 21                                            | 23              | 31                                      | 35                                        | 39                                        | 11                                        | 31              | 12              | 34               | 0                |