**Table S2**. Phenotypes collected for stripe rust resistance.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phenotyping datasets** | **Location** | **Year** | **Scale** | **Description** |
| ROS10\_YR\_SV1 | Rossville, KS | 2010 | 0-100% | Severity |
| ROS10\_YR\_IT2 | Rossville, KS | 2010 | 1-9 | Infection type |
| GH11\_YR\_SV1 | Greenhouse | 2011 | 0-100% | Severity |
| GH11\_YR\_IT2 | Greenhouse | 2011 | 1-9 | Infection type |
| ROS11\_YR\_IT2 | Rossville, KS | 2011 | 1-9 | Infection type |
| ROS11\_YR\_SV3 | Rossville, KS | 2011 | 0-100% | Severity |
| TEX\_2012\_IT | Castroville, Texas | 2012 | 1-9 | Infection type |
| GH10\_YR\_SD | Greenhouse | 2010 | 1-9 | Seedling resistance |