|  |  |  |
| --- | --- | --- |
| **Linkage Group** | **JS97-52 derived KTI free line × NRC109** | **NRC7 derived KTI free line × NRC109** |
| A1 | Sat\_368, Satt593, Satt050, Sat\_171, SOYNOD26A, Satt619, Sat\_267, Satt236, Satt211, Sat\_217  | Satt684, Sat\_368, Sat\_385, Sat\_384, Satt591, Satt155, Sat\_356, Satt050, Sat\_407, Sat\_171, Satt258, Satt211  |
| A2 | Satt390, Satt589, Sat\_400, GMENOD2B, Satt424, AW132402, Satt233, Satt341, Satt089, Satt233, Satt329, Sat\_294, Satt421, Satt409, Satt228, Sat\_347, Satt429  | Satt390, Sat\_400, Satt424, AW132402, Satt228, Sat\_347, Satt538, Satt429  |
| B1 | BE806308, Sat\_270, Satt251, Sat\_128, Sat\_348, Satt444, Satt359, Sat\_331  | Sat\_270, Satt426, Satt251, Sat\_128, Sat\_348, Satt597, Satt444, Satt359  |
| B2 | Satt577, Sat\_264, Sat\_342, Satt416, Sat\_355, Satt534, Satt560, Satt687  | Sat\_264, Sat\_342, Satt416, Sat\_355, Sct\_094, Satt560  |
| C1 | Sat\_337, Satt578, Satt607, Satt646, Sat\_085, Sat\_042, Sct\_191  | Sat\_367, Sat\_140, Satt578, Satt607, Satt361, Satt713, Sct\_191, Satt524, AI794821, Satt338  |
| C2 | Satt681, Satt281, Satt422, Satt305, Sat\_213, Sat\_246, Satt376, Satt363, Satt277, Satt557, Sat\_251, Satt202, Satt371, Satt357  | AW734043, Satt640, Satt520, Satt422, Satt457, Satt305, Satt363, Satt316, Satt277, Sat\_251, Sat\_238, Satt079, Satt307, Satt371  |
| D1a | Sat\_332, Sat\_413, Satt184, Satt531, Satt320, Satt295, Sat\_201, Satt580, Satt507, Satt436, Sat\_036, Satt077, Sat\_305, Satt071, Satt129  | Sat\_332, Sat\_413, Satt184, Satt368, Satt532, Satt603, Satt295, Sat\_201, Satt580, AW781285, Satt198, Satt436, Sat\_414, Sat\_305, Satt071  |
| D1b | Sat\_096, Sat\_279, Sat\_351, Satt701, AI856415, Satt266, Satt600, Satt189, Satt644, Satt041, Satt703, Satt172, Sat\_069, Sat\_183, Satt274, Sat\_202, Sat\_198, Staga002  | Sat\_279, Satt216, Sat\_351, Satt157, Satt296, Satt542, Sat\_135, Satt005, Satt703, Satt172, Sat\_069, Sat\_183  |
| D2 | Sct\_192, Satt014, Sat\_284, Sat\_292, Satt389, Satt461, Satt311, Satt488, Satt301, GMHSP179, Satt310, Sat\_326, Satt672, Sat\_022  | Sct\_192, Satt014, Satt486, Satt582, Satt397, Sat\_292, Satt389, Satt461, Sat\_114, Satt488, Satt464, Satt301, Sat\_326, Satt413, Satt672, Satt256, Sat\_220  |
| E | Sat\_112, Sat\_124, Satt651, Sat\_172, Sat\_172, Sat\_273, Satt369, Satt553, Sat\_376  | Sat\_112, Sat\_124, Satt720, Satt651, Satt212, Sat\_136, Sat\_172, Satt268, Satt724, Satt045, Sat\_273, Satt369  |
| F | Satt193, Sat\_240, Sat\_298, Satt516, Satt595, Sat\_234, Sct\_033, Satt335, Sct\_188, Sat\_313, Satt144, Satt657, Satt522, AW756935, Satt656, Satt395  | GMRUBP, Satt343, Satt569, Satt030, Satt348, AW186493, Sat\_298, Sat\_229, Satt657, Satt656, Sat\_074  |
| G | Sat\_163, Satt038, Sat\_168, Satt235, Satt324, Satt115, Satt501, Satt352, Satt138, Satt400, Sat\_164, Satt503, Satt517, AF162283, Satt472, Satt191, Sat\_117, Sct\_187  | Satt163, Satt038, Sat\_210, Sat\_141, Sat\_163, Satt217, Satt235, Sat\_315, Sat\_290, Satt324, Satt501, Satt340, Satt131, Satt352, Satt594, Satt138, Sat\_260, Sat\_203, Satt199, Sat\_164, Satt503, Satt517, AF162283, Satt191, Sat\_117, Sct\_187  |
| H | Satt666, Satt568, Sat\_127, Satt442, Sat\_334, Satt253, Sat\_158, Sat\_216, Satt317, Sat\_218, Sat\_180  | Satt635, Satt568, Satt192, Satt541, Satt629, Sat\_216, Satt637, Satt142, Satt317, Sat\_218, Satt434  |
| I | Satt571, Satt562, Satt614, Sat\_174, Satt354, Satt650, Sat\_170, Satt292, Sat\_155, Sat\_420, Sct\_189  | Satt562, Satt127, Sat\_174, Satt354, Satt049, Satt650, Sat\_418, Sat\_170, Satt330, Satt292, Sat\_419, Sat\_420  |
| J | AW310961, Satt674, Satt280, Satt654, Satt596, Satt686, Satt380, Sat\_350, Sctt001, Sat\_396, Sat\_224, Satt431, Sat\_395, Sat\_393  | Sat\_339, Satt414, Satt280, Sat\_259, Sat\_412, Sat\_151, Sat\_165, Satt380, Sat\_361, Sat\_366, Sat\_350, Sctt011, Sat\_224, Satt431, Sat\_394, Sat\_395, Sat\_393  |
| K | Satt539, Satt242, Satt102, Satt349, Satt110, Satt559, Satt499, Satt260, Sat\_126, Satt588  | Sat\_087, Satt102, Satt137, Sat\_349, Satt710, Satt559, Satt260, Sat\_243, Sat\_352, Sat\_293  |
| L | Satt723, Sat\_301, Satt278, Satt462, Sat\_150, Satt481, Satt166, Sat\_113, Sat\_229, Satt513, Sat\_245  | Satt232, Sat\_301, Sat\_071, Satt388, Satt523, Sat\_397, Satt462, Sat\_150, Satt166, Sat\_113, Satt373  |
| M | Satt590, Satt540, Satt435, Sat\_253, Satt626, Satt175, Satt677, Sat\_288, Sat\_422, Satt551, Sat\_121, Sat\_330  | Satt590, Satt201, Satt435, Sat\_253, Sat\_422, Satt618  |
| N | Satt152, Satt641, Sat\_084, Satt080, Sat\_236, Satt660, GMABAB, Satt237, Satt255, Sat\_295  | Satt152, Satt009, Satt641, Sat\_186, Satt584, Sat\_275, Sat\_266, Satt549, Satt237, Sat\_239, Sat\_241  |
| O | Sat\_196, Satt358, Sat\_132, Satt653, Sat\_221, Satt345, Sat\_282, Sat\_108  | Satt358, Satt653, Sat\_221, Satt550, Satt345, Sat\_242, Satt581, Sat\_307, Sat\_109, Scaa001  |

Table: List of polymorphic markers used for RPGC of selected BC2F2 lines in JS97-52 derived KTI free line×NRC109 and NRC7 derived KTI free line×NRC109