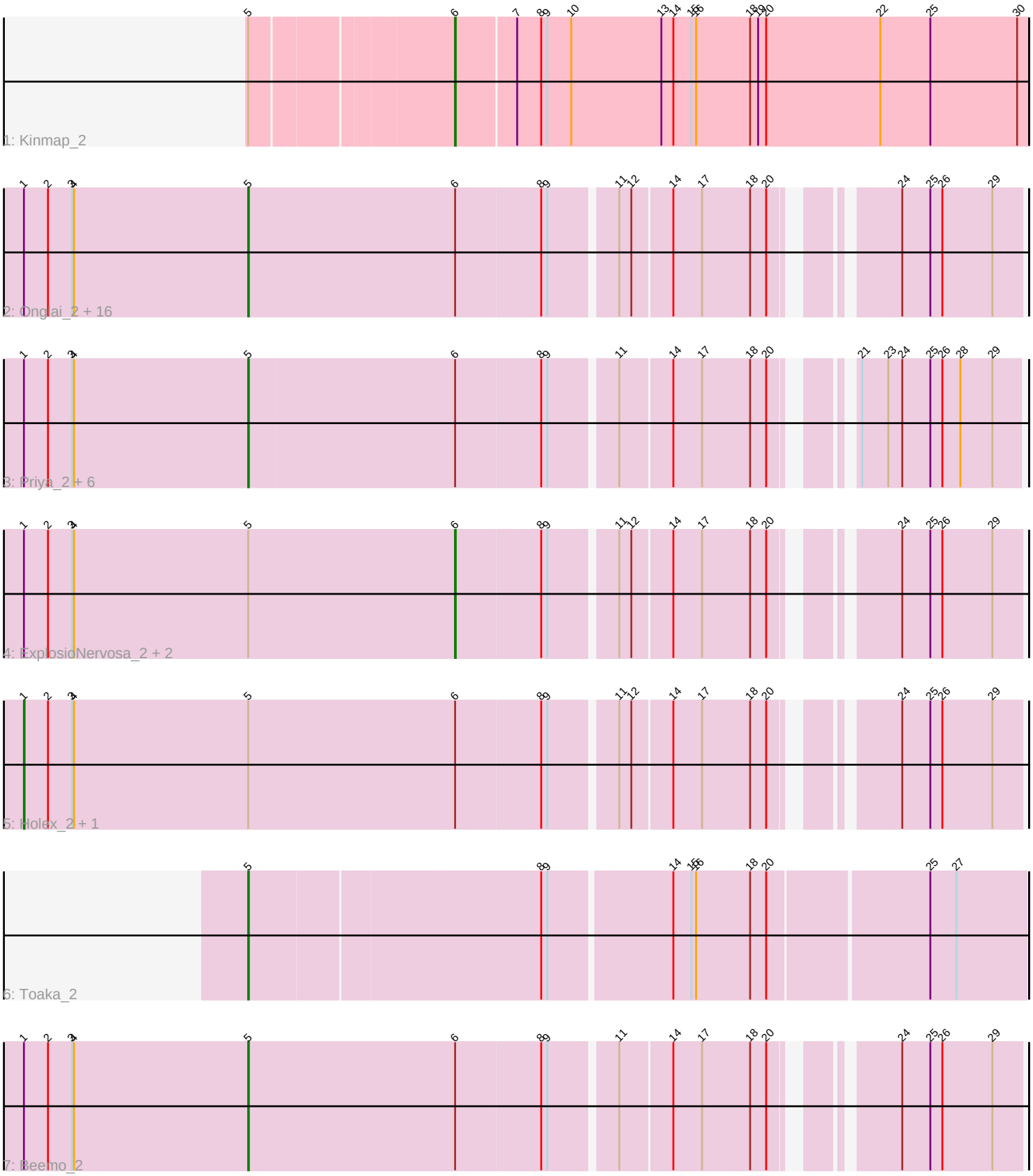
Pham 345983


1: Kinmap_2
2: Onglai_2 + 16
3: Priya_2 + 6
4: ExplosidNervosa_2 + 2
5: Holex_2 + 1
6: Toaka_2
7: Beemo_2

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 345983 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345983 has 32 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Kinmap_2
• Track 2 : Onglai_2, HortumSL17_2, Lilleskat_2, Hanray_2, Ugenie5_1, Phaeder_2, Aliter_2, Tubs_2, Ayanochan_2, Scherzo_2, Catalina_2, EdogawaKiddo_2, Sachima_2, Jiawan_2, Pioneer_2, Phonnegut_2, Myxus_2
• Track 3 : Priya_2, Eidsmoe_2, Qobbit_2, Alma_2, Conquerage_2, Spouty_2, EmyBug_2
• Track 4 : ExplosioNervosa_2, Fayely_2, PackMan_2
• Track 5 : Holex_2, RyeScarlet_2
• Track 6 : Toaka_2
• Track 7 : Beemo_2

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 5, it was called in 26 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aliter_2, Alma_2, Ayanochan_2, Beemo_2, Catalina_2, Conquerage_2, EdogawaKiddo_2, Eidsmoe_2, EmyBug_2, Hanray_2, HortumSL17_2, Jiawan_2, Lilleskat_2, Myxus_2, Onglai_2, Phaeder_2, Phonnegut_2, Pioneer_2, Priya_2, Qobbit_2, Sachima_2, Scherzo_2, Spouty_2, Toaka_2, Tubs_2, Ugenie5_1,

Genes that have the "Most Annotated" start but do not call it:
• ExplosioNervosa_2, Fayely_2, Holex_2, Kinmap_2, PackMan_2, RyeScarlet_2,

Genes that do not have the "Most Annotated" start:
•

Summary by start number:

Start 1:
• Found in 30 of 32 (93.8%) of genes in pham
• Manual Annotations of this start: 2 of 32
• Called 6.7% of time when present

• Phage (with cluster) where this start called: Holex_2 (A9), RyeScarlet_2 (A9),

Start 5:
• Found in 32 of 32 (100.0%) of genes in pham
• Manual Annotations of this start: 26 of 32
• Called 81.2% of time when present
• Phage (with cluster) where this start called: Aliter_2 (A9), Alma_2 (A9), Ayanochan_2 (A9), Beemo_2 (A9), Catalina_2 (A9), Conquerage_2 (A9), EdogawaKiddo_2 (A9), Eidsmoe_2 (A9), EmyBug_2 (A9), Hanray_2 (A9), HortumSL17_2 (A9), Jiawan_2 (A9), Lilleskat_2 (A9), Myxus_2 (A9), Onglai_2 (A9), Phaeder_2 (A9), Phonnegut_2 (A9), Pioneer_2 (A9), Priya_2 (A9), Qobbit_2 (A9), Sachima_2 (A9), Scherzo_2 (A9), Spouty_2 (A9), Toaka_2 (A9), Tubs_2 (A9), Ugenie5_1 (A9),

Start 6:
• Found in 31 of 32 (96.9%) of genes in pham
• Manual Annotations of this start: 4 of 32
• Called 12.9% of time when present
• Phage (with cluster) where this start called: ExplosioNervosa_2 (A9), Fayely_2 (A9), Kinmap_2 (A21), PackMan_2 (A9),

Summary by clusters:

There are 2 clusters represented in this pham: A9, A21,

Info for manual annotations of cluster A21:
•Start number 6 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A9:
•Start number 1 was manually annotated 2 times for cluster A9.
•Start number 5 was manually annotated 26 times for cluster A9.
•Start number 6 was manually annotated 3 times for cluster A9.

Gene Information:

Gene: Aliter_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Aliter_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Alma_2 Start: 1051, Stop: 2109, Start Num: 5
Candidate Starts for Alma_2:
(Start: 1 @715 has 2 MA's), (2, 751), (3, 787), (4, 790), (Start: 5 @1051 has 26 MA's), (Start: 6 @1357 has 4 MA's), (8, 1483), (9, 1492), (11, 1585), (14, 1660), (17, 1702), (18, 1774), (20, 1798), (21, 1876), (23, 1915), (24, 1936), (25, 1978), (26, 1996), (28, 2023), (29, 2071),

Gene: Ayanochan_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Ayanochan_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800),

(24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Beemo_2 Start: 1051, Stop: 2115, Start Num: 5
Candidate Starts for Beemo_2:
(Start: 1 @715 has 2 MA's), (2, 751), (3, 787), (4, 790), (Start: 5 @1051 has 26 MA's), (Start: 6 @1360 has 4 MA's), (8, 1486), (9, 1495), (11, 1588), (14, 1663), (17, 1705), (18, 1777), (20, 1801), (24, 1939), (25, 1981), (26, 1999), (29, 2074),

Gene: Catalina_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Catalina_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Conquerage_2 Start: 1050, Stop: 2108, Start Num: 5
Candidate Starts for Conquerage_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1356 has 4 MA's), (8, 1482), (9, 1491), (11, 1584), (14, 1659), (17, 1701), (18, 1773), (20, 1797), (21, 1875), (23, 1914), (24, 1935), (25, 1977), (26, 1995), (28, 2022), (29, 2070),

Gene: EdogawaKiddo_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for EdogawaKiddo_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Eidsmoe_2 Start: 1050, Stop: 2108, Start Num: 5
Candidate Starts for Eidsmoe_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1356 has 4 MA's), (8, 1482), (9, 1491), (11, 1584), (14, 1659), (17, 1701), (18, 1773), (20, 1797), (21, 1875), (23, 1914), (24, 1935), (25, 1977), (26, 1995), (28, 2022), (29, 2070),

Gene: EmyBug_2 Start: 1050, Stop: 2108, Start Num: 5
Candidate Starts for EmyBug_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1356 has 4 MA's), (8, 1482), (9, 1491), (11, 1584), (14, 1659), (17, 1701), (18, 1773), (20, 1797), (21, 1875), (23, 1914), (24, 1935), (25, 1977), (26, 1995), (28, 2022), (29, 2070),

Gene: ExplosioNervosa_2 Start: 1359, Stop: 2114, Start Num: 6
Candidate Starts for ExplosioNervosa_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Fayely_2 Start: 1359, Stop: 2114, Start Num: 6
Candidate Starts for Fayely_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Hanray_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Hanray_2:

(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Holex_2 Start: 714, Stop: 2114, Start Num: 1
Candidate Starts for Holex_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: HortumSL17_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for HortumSL17_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Jiawan_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Jiawan_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Kinmap_2 Start: 1418, Stop: 2269, Start Num: 6
Candidate Starts for Kinmap_2:
(Start: 5 @1133 has 26 MA's), (Start: 6 @1418 has 4 MA's), (7, 1505), (8, 1541), (9, 1550), (10, 1586), (13, 1721), (14, 1739), (15, 1766), (16, 1772), (18, 1853), (19, 1865), (20, 1877), (22, 2048), (25, 2123), (30, 2252),

Gene: Lilleskat_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Lilleskat_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Myxus_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Myxus_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Onglai_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Onglai_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: PackMan_2 Start: 1359, Stop: 2114, Start Num: 6
Candidate Starts for PackMan_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Phaeder_2 Start: 1050, Stop: 2114, Start Num: 5

Candidate Starts for Phaeder_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Phonnegut_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Phonnegut_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Pioneer_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Pioneer_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Priya_2 Start: 1050, Stop: 2108, Start Num: 5
Candidate Starts for Priya_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1356 has 4 MA's), (8, 1482), (9, 1491), (11, 1584), (14, 1659), (17, 1701), (18, 1773), (20, 1797), (21, 1875), (23, 1914), (24, 1935), (25, 1977), (26, 1995), (28, 2022), (29, 2070),

Gene: Qobbit_2 Start: 1050, Stop: 2108, Start Num: 5
Candidate Starts for Qobbit_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1356 has 4 MA's), (8, 1482), (9, 1491), (11, 1584), (14, 1659), (17, 1701), (18, 1773), (20, 1797), (21, 1875), (23, 1914), (24, 1935), (25, 1977), (26, 1995), (28, 2022), (29, 2070),

Gene: RyeScarlet_2 Start: 714, Stop: 2114, Start Num: 1
Candidate Starts for RyeScarlet_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Sachima_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Sachima_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Scherzo_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Scherzo_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Spouty_2 Start: 1050, Stop: 2108, Start Num: 5
Candidate Starts for Spouty_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1356 has 4 MA's), (8, 1482), (9, 1491), (11, 1584), (14, 1659), (17, 1701), (18, 1773), (20, 1797), (21, 1875), (23, 1914), (24, 1935), (25, 1977), (26, 1995), (28, 2022), (29, 2070),

Gene: Toaka_2 Start: 1049, Stop: 2170, Start Num: 5
Candidate Starts for Toaka_2:
(Start: 5 @1049 has 26 MA's), (8, 1475), (9, 1484), (14, 1661), (15, 1688), (16, 1694), (18, 1775), (20, 1799), (25, 2027), (27, 2066),

Gene: Tubs_2 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Tubs_2:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),

Gene: Ugenie5_1 Start: 1050, Stop: 2114, Start Num: 5
Candidate Starts for Ugenie5_1:
(Start: 1 @714 has 2 MA's), (2, 750), (3, 786), (4, 789), (Start: 5 @1050 has 26 MA's), (Start: 6 @1359 has 4 MA's), (8, 1485), (9, 1494), (11, 1587), (12, 1605), (14, 1662), (17, 1704), (18, 1776), (20, 1800), (24, 1938), (25, 1980), (26, 1998), (29, 2073),