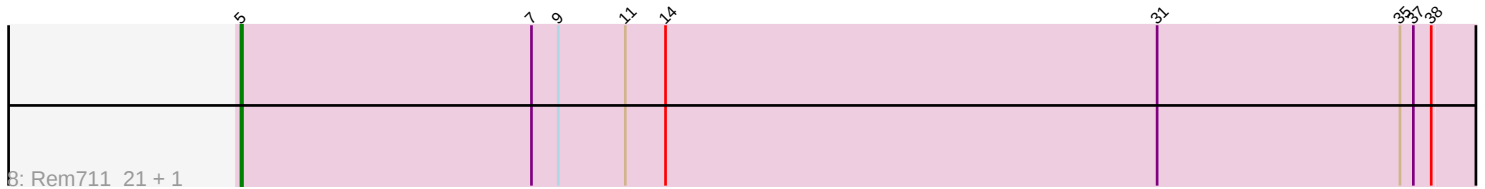
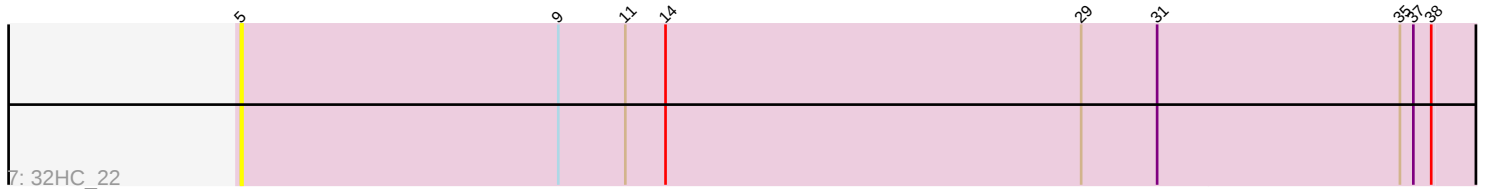
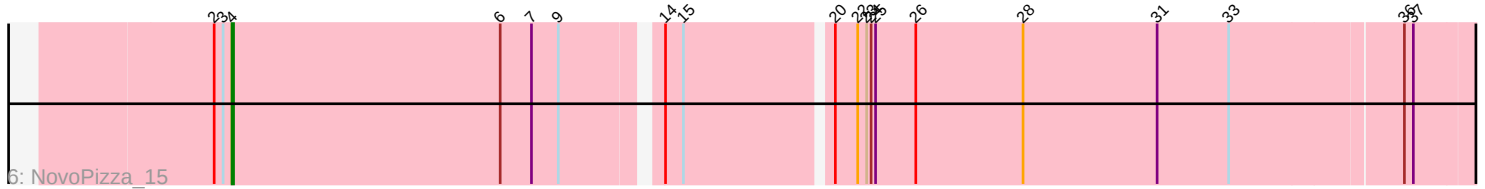
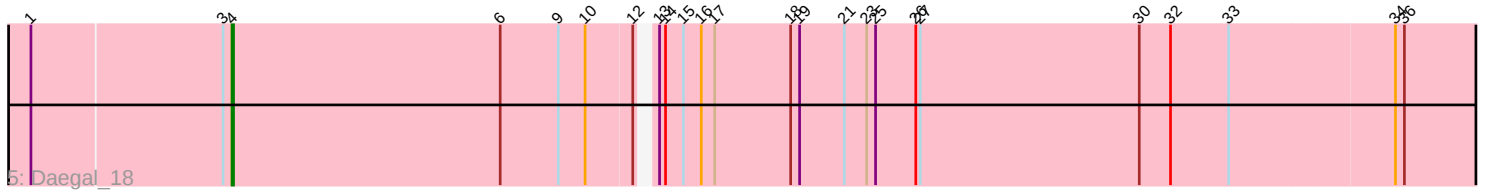
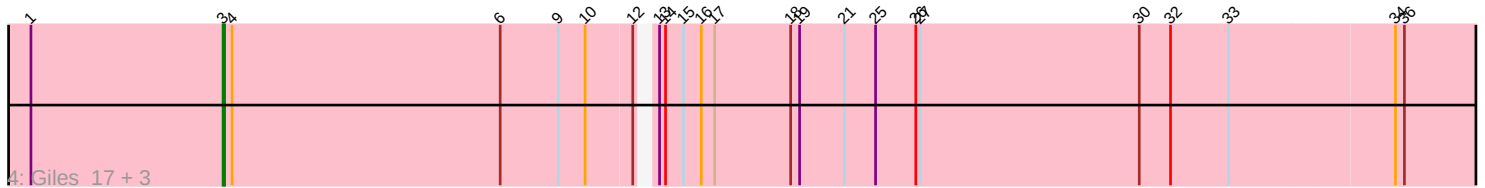
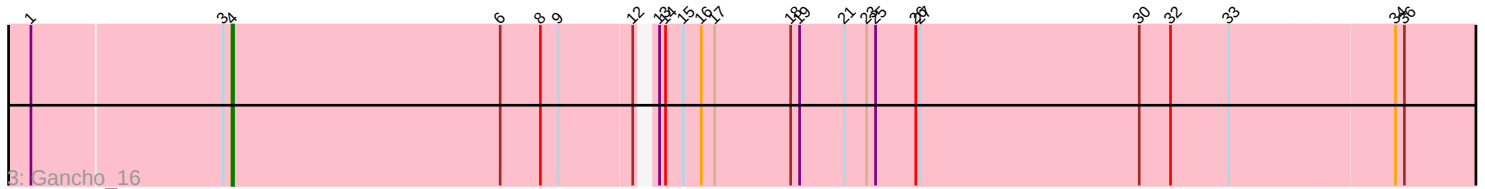
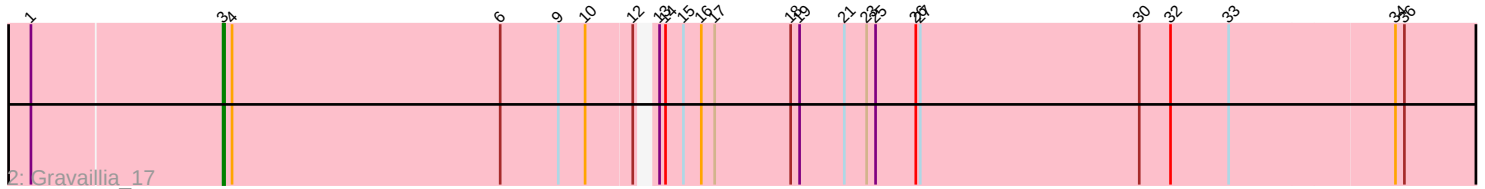
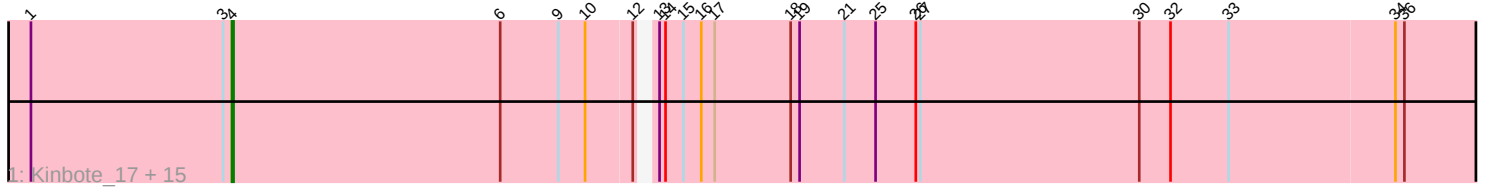


Pham 331149



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 331149 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331149 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Kinbote_17, BloominB_17, LilHazelnut_17, Evanesce_17, Hadrien_17, DeepSoil15_17, Ein37_17, Webster2_17, Amymech_17, Wishmaker_17, Forge_17, HH92_17, Luke_17, Amochick_17, Luna22_17, Hail_17
- Track 2 : Gravaillia_17
- Track 3 : Gancho_16
- Track 4 : Giles_17, OBUpride_17, Dewey_17, Ubuntu_17
- Track 5 : Daegal_18
- Track 6 : NovoPizza_15
- Track 7 : 32HC_22
- Track 8 : Rem711_21, Rem711_22

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

The start number called the most often in the published annotations is 4, it was called in 19 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_17, Amymech_17, BloominB_17, Daegal_18, DeepSoil15_17, Ein37_17, Evanesce_17, Forge_17, Gancho_16, HH92_17, Hadrien_17, Hail_17, Kinbote_17, LilHazelnut_17, Luke_17, Luna22_17, NovoPizza_15, Webster2_17, Wishmaker_17,

Genes that have the "Most Annotated" start but do not call it:

- Dewey_17, Giles_17, Gravaillia_17, OBUpride_17, Ubuntu_17,

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

- 32HC_22, Rem711_21, Rem711_22,

Summary by start number:

Start 3:

- Found in 24 of 27 (88.9%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 20.8% of time when present

- Phage (with cluster) where this start called: Dewey_17 (Q), Giles_17 (Q), Gravaillia_17 (Q), OBUpride_17 (Q), Ubuntu_17 (Q),

Start 4:

- Found in 24 of 27 (88.9%) of genes in pham
- Manual Annotations of this start: 19 of 26
- Called 79.2% of time when present
- Phage (with cluster) where this start called: Amochick_17 (Q), Amymech_17 (Q), BloominB_17 (Q), Daegal_18 (Q), DeepSoil15_17 (Q), Ein37_17 (Q), Evanesce_17 (Q), Forge_17 (Q), Gancho_16 (Q), HH92_17 (Q), Hadrien_17 (Q), Hail_17 (Q), Kinbote_17 (Q), LilHazelNut_17 (Q), Luke_17 (Q), Luna22_17 (Q), NovoPizza_15 (Q), Webster2_17 (Q), Wishmaker_17 (Q),

Start 5:

- Found in 3 of 27 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_22 (Z), Rem711_21 (Z), Rem711_22 (Z),

Summary by clusters:

There are 2 clusters represented in this pham: Q, Z,

Info for manual annotations of cluster Q:

- Start number 3 was manually annotated 5 times for cluster Q.
- Start number 4 was manually annotated 19 times for cluster Q.

Info for manual annotations of cluster Z:

- Start number 5 was manually annotated 2 times for cluster Z.

Gene Information:

Gene: 32HC_22 Start: 12648, Stop: 13490, Start Num: 5

Candidate Starts for 32HC_22:

(Start: 5 @12648 has 2 MA's), (9, 12861), (11, 12906), (14, 12933), (29, 13212), (31, 13263), (35, 13425), (37, 13434), (38, 13446),

Gene: Amochick_17 Start: 10896, Stop: 11786, Start Num: 4

Candidate Starts for Amochick_17:

(1, 10761), (Start: 3 @10890 has 5 MA's), (Start: 4 @10896 has 19 MA's), (6, 11076), (9, 11115), (10, 11133), (12, 11163), (13, 11169), (14, 11172), (15, 11184), (16, 11196), (17, 11205), (18, 11256), (19, 11262), (21, 11292), (25, 11313), (26, 11340), (27, 11343), (30, 11490), (32, 11511), (33, 11550), (34, 11658), (36, 11664),

Gene: Amymech_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Amymech_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: BloominB_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for BloominB_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Daegal_18 Start: 11187, Stop: 12077, Start Num: 4

Candidate Starts for Daegal_18:

(1, 11055), (Start: 3 @11181 has 5 MA's), (Start: 4 @11187 has 19 MA's), (6, 11367), (9, 11406), (10, 11424), (12, 11454), (13, 11460), (14, 11463), (15, 11475), (16, 11487), (17, 11496), (18, 11547), (19, 11553), (21, 11583), (23, 11598), (25, 11604), (26, 11631), (27, 11634), (30, 11781), (32, 11802), (33, 11841), (34, 11949), (36, 11955),

Gene: DeepSoil15_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for DeepSoil15_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Dewey_17 Start: 10893, Stop: 11789, Start Num: 3

Candidate Starts for Dewey_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Ein37_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Ein37_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Evanescence_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Evanescence_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Forge_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Forge_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Gancho_16 Start: 10599, Stop: 11489, Start Num: 4

Candidate Starts for Gancho_16:

(1, 10467), (Start: 3 @10593 has 5 MA's), (Start: 4 @10599 has 19 MA's), (6, 10779), (8, 10806), (9, 10818), (12, 10866), (13, 10872), (14, 10875), (15, 10887), (16, 10899), (17, 10908), (18, 10959), (19, 10965), (21, 10995), (23, 11010), (25, 11016), (26, 11043), (27, 11046), (30, 11193), (32, 11214), (33, 11253), (34, 11361), (36, 11367),

Gene: Giles_17 Start: 10893, Stop: 11789, Start Num: 3

Candidate Starts for Giles_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Gravaillia_17 Start: 10626, Stop: 11522, Start Num: 3

Candidate Starts for Gravaillia_17:

(1, 10500), (Start: 3 @10626 has 5 MA's), (Start: 4 @10632 has 19 MA's), (6, 10812), (9, 10851), (10, 10869), (12, 10899), (13, 10905), (14, 10908), (15, 10920), (16, 10932), (17, 10941), (18, 10992), (19, 10998), (21, 11028), (23, 11043), (25, 11049), (26, 11076), (27, 11079), (30, 11226), (32, 11247), (33, 11286), (34, 11394), (36, 11400),

Gene: HH92_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for HH92_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Hadrien_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Hadrien_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Hail_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Hail_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Kinbote_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Kinbote_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: LilHazelNut_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for LilHazelNut_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Luke_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Luke_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Luna22_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Luna22_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: NovoPizza_15 Start: 11141, Stop: 12016, Start Num: 4

Candidate Starts for NovoPizza_15:

(2, 11129), (Start: 3 @11135 has 5 MA's), (Start: 4 @11141 has 19 MA's), (6, 11321), (7, 11342), (9, 11360), (14, 11417), (15, 11429), (20, 11522), (22, 11537), (23, 11543), (24, 11546), (25, 11549), (26, 11576), (28, 11648), (31, 11738), (33, 11786), (36, 11897), (37, 11903),

Gene: OBUpride_17 Start: 10887, Stop: 11783, Start Num: 3

Candidate Starts for OBUpride_17:

(1, 10758), (Start: 3 @10887 has 5 MA's), (Start: 4 @10893 has 19 MA's), (6, 11073), (9, 11112), (10, 11130), (12, 11160), (13, 11166), (14, 11169), (15, 11181), (16, 11193), (17, 11202), (18, 11253), (19, 11259), (21, 11289), (25, 11310), (26, 11337), (27, 11340), (30, 11487), (32, 11508), (33, 11547), (34, 11655), (36, 11661),

Gene: Rem711_21 Start: 12696, Stop: 13538, Start Num: 5

Candidate Starts for Rem711_21:

(Start: 5 @12696 has 2 MA's), (7, 12891), (9, 12909), (11, 12954), (14, 12981), (31, 13311), (35, 13473), (37, 13482), (38, 13494),

Gene: Rem711_22 Start: 12696, Stop: 13846, Start Num: 5

Candidate Starts for Rem711_22:

(Start: 5 @12696 has 2 MA's), (7, 12891), (9, 12909), (11, 12954), (14, 12981), (31, 13311), (35, 13473), (37, 13482), (38, 13494),

Gene: Ubuntu_17 Start: 10893, Stop: 11789, Start Num: 3

Candidate Starts for Ubuntu_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Webster2_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Webster2_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),

Gene: Wishmaker_17 Start: 10899, Stop: 11789, Start Num: 4

Candidate Starts for Wishmaker_17:

(1, 10764), (Start: 3 @10893 has 5 MA's), (Start: 4 @10899 has 19 MA's), (6, 11079), (9, 11118), (10, 11136), (12, 11166), (13, 11172), (14, 11175), (15, 11187), (16, 11199), (17, 11208), (18, 11259), (19, 11265), (21, 11295), (25, 11316), (26, 11343), (27, 11346), (30, 11493), (32, 11514), (33, 11553), (34, 11661), (36, 11667),