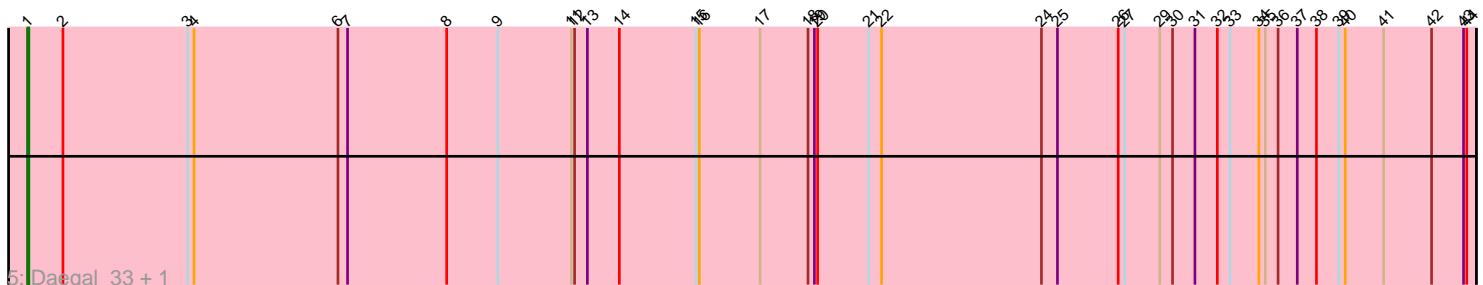
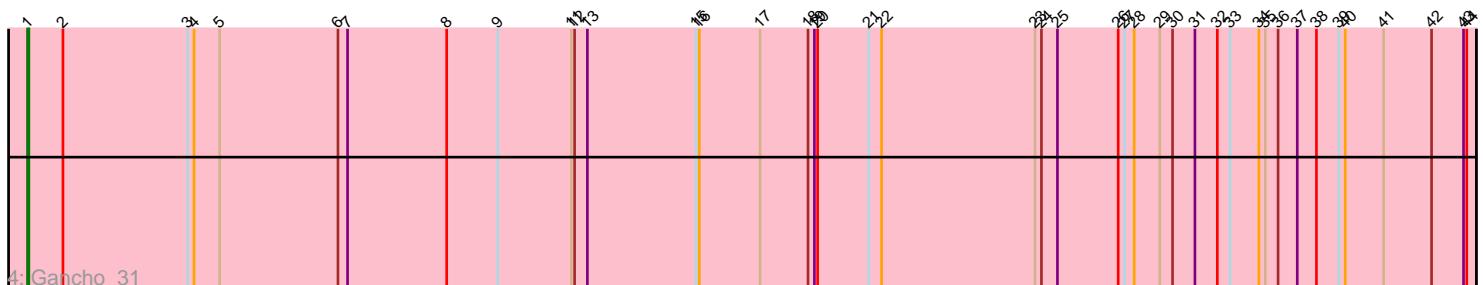
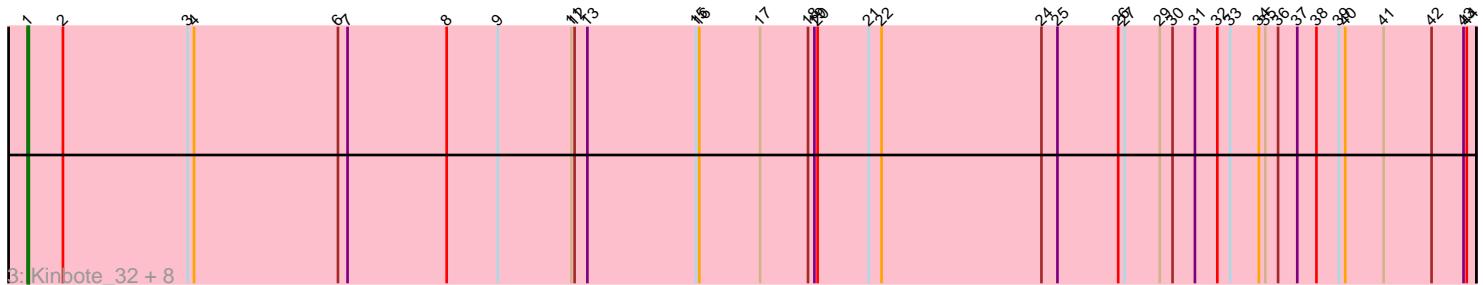
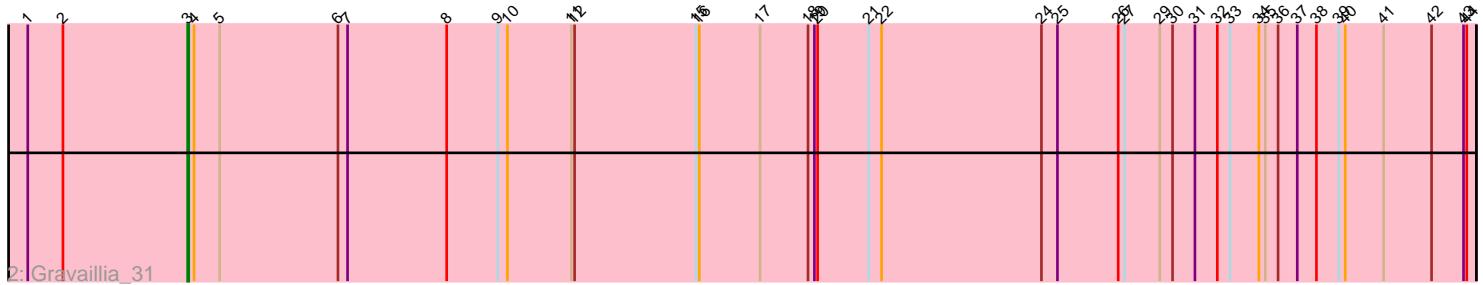
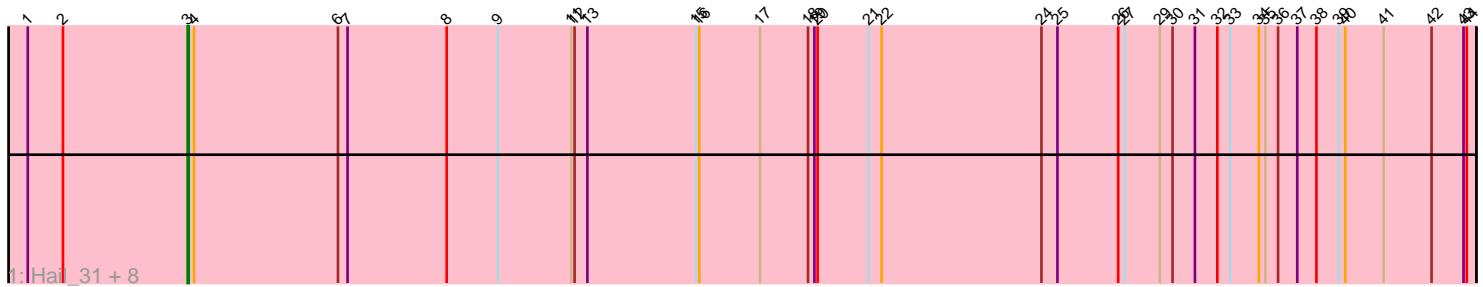


Pham 216554



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 216554 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216554 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Hail_31, Hadrien_32, Giles_31, Wishmaker_31, Dewey_31, Forge_31, Luke_32, Ubuntu_32, Luna22_31
- Track 2 : Gravallia_31
- Track 3 : Kinbote_32, Evanescence_31, Webster2_32, DeepSoil15_32, Amymech_32, Ein37_32, HH92_31, OBUpride_32, LilHazelnut_32
- Track 4 : Gancho_31
- Track 5 : Daegal_33, Amochick_32

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

The start number called the most often in the published annotations is 1, it was called in 12 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_32, Amymech_32, Daegal_33, DeepSoil15_32, Ein37_32, Evanescence_31, Gancho_31, HH92_31, Kinbote_32, LilHazelnut_32, OBUpride_32, Webster2_32,

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

- Dewey_31, Forge_31, Giles_31, Gravallia_31, Hadrien_32, Hail_31, Luke_32, Luna22_31, Ubuntu_32, Wishmaker_31,

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

-

Summary by start number:

Start 1:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 22
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Amochick_32 (Q), Amymech_32 (Q), Daegal_33 (Q), DeepSoil15_32 (Q), Ein37_32 (Q), Evanescence_31 (Q), Gancho_31 (Q), HH92_31 (Q), Kinbote_32 (Q), LilHazelnut_32 (Q), OBUpride_32 (Q), Webster2_32 (Q),

Start 3:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 10 of 22
- Called 45.5% of time when present
- Phage (with cluster) where this start called: Dewey_31 (Q), Forge_31 (Q), Giles_31 (Q), Gravaillia_31 (Q), Hadrien_32 (Q), Hail_31 (Q), Luke_32 (Q), Luna22_31 (Q), Ubuntu_32 (Q), Wishmaker_31 (Q),

Summary by clusters:

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

- Start number 1 was manually annotated 12 times for cluster Q.
- Start number 3 was manually annotated 10 times for cluster Q.

Gene Information:

Gene: Amochick_32 Start: 26987, Stop: 28345, Start Num: 1

Candidate Starts for Amochick_32:

(Start: 1 @26987 has 12 MA's), (2, 27020), (Start: 3 @27137 has 10 MA's), (4, 27143), (6, 27278), (7, 27287), (8, 27380), (9, 27428), (11, 27497), (12, 27500), (13, 27512), (14, 27542), (15, 27614), (16, 27617), (17, 27674), (18, 27719), (19, 27725), (20, 27728), (21, 27776), (22, 27788), (24, 27938), (25, 27953), (26, 28010), (27, 28016), (29, 28049), (30, 28061), (31, 28082), (32, 28103), (33, 28115), (34, 28142), (35, 28148), (36, 28160), (37, 28178), (38, 28196), (39, 28217), (40, 28223), (41, 28259), (42, 28304), (43, 28334), (44, 28337),

Gene: Amymech_32 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for Amymech_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Daegal_33 Start: 27275, Stop: 28633, Start Num: 1

Candidate Starts for Daegal_33:

(Start: 1 @27275 has 12 MA's), (2, 27308), (Start: 3 @27425 has 10 MA's), (4, 27431), (6, 27566), (7, 27575), (8, 27668), (9, 27716), (11, 27785), (12, 27788), (13, 27800), (14, 27830), (15, 27902), (16, 27905), (17, 27962), (18, 28007), (19, 28013), (20, 28016), (21, 28064), (22, 28076), (24, 28226), (25, 28241), (26, 28298), (27, 28304), (29, 28337), (30, 28349), (31, 28370), (32, 28391), (33, 28403), (34, 28430), (35, 28436), (36, 28448), (37, 28466), (38, 28484), (39, 28505), (40, 28511), (41, 28547), (42, 28592), (43, 28622), (44, 28625),

Gene: DeepSoil15_32 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for DeepSoil15_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26,

28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Dewey_31 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Dewey_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Ein37_32 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for Ein37_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Evansce_31 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for Evansce_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Forge_31 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Forge_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Gancho_31 Start: 26704, Stop: 28062, Start Num: 1

Candidate Starts for Gancho_31:

(Start: 1 @26704 has 12 MA's), (2, 26737), (Start: 3 @26854 has 10 MA's), (4, 26860), (5, 26884), (6, 26995), (7, 27004), (8, 27097), (9, 27145), (11, 27214), (12, 27217), (13, 27229), (15, 27331), (16, 27334), (17, 27391), (18, 27436), (19, 27442), (20, 27445), (21, 27493), (22, 27505), (23, 27649), (24, 27655), (25, 27670), (26, 27727), (27, 27733), (28, 27742), (29, 27766), (30, 27778), (31, 27799), (32, 27820), (33, 27832), (34, 27859), (35, 27865), (36, 27877), (37, 27895), (38, 27913), (39, 27934), (40, 27940), (41, 27976), (42, 28021), (43, 28051), (44, 28054),

Gene: Giles_31 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Giles_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17,

(27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Gravaillia_31 Start: 26860, Stop: 28068, Start Num: 3

Candidate Starts for Gravaillia_31:

(Start: 1 @26710 has 12 MA's), (2, 26743), (Start: 3 @26860 has 10 MA's), (4, 26866), (5, 26890), (6, 27001), (7, 27010), (8, 27103), (9, 27151), (10, 27160), (11, 27220), (12, 27223), (15, 27337), (16, 27340), (17, 27397), (18, 27442), (19, 27448), (20, 27451), (21, 27499), (22, 27511), (24, 27661), (25, 27676), (26, 27733), (27, 27739), (29, 27772), (30, 27784), (31, 27805), (32, 27826), (33, 27838), (34, 27865), (35, 27871), (36, 27883), (37, 27901), (38, 27919), (39, 27940), (40, 27946), (41, 27982), (42, 28027), (43, 28057), (44, 28060),

Gene: HH92_31 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for HH92_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Hadrien_32 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Hadrien_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Hail_31 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Hail_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Kinbote_32 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for Kinbote_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: LilHazelnut_32 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for LilHazelnut_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Luke_32 Start: 27086, Stop: 28294, Start Num: 3

Candidate Starts for Luke_32:

(Start: 1 @26936 has 12 MA's), (2, 26969), (Start: 3 @27086 has 10 MA's), (4, 27092), (6, 27227), (7, 27236), (8, 27329), (9, 27377), (11, 27446), (12, 27449), (13, 27461), (15, 27563), (16, 27566), (17, 27623), (18, 27668), (19, 27674), (20, 27677), (21, 27725), (22, 27737), (24, 27887), (25, 27902), (26, 27959), (27, 27965), (29, 27998), (30, 28010), (31, 28031), (32, 28052), (33, 28064), (34, 28091), (35, 28097), (36, 28109), (37, 28127), (38, 28145), (39, 28166), (40, 28172), (41, 28208), (42, 28253), (43, 28283), (44, 28286),

Gene: Luna22_31 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Luna22_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: OBUpride_32 Start: 26975, Stop: 28333, Start Num: 1

Candidate Starts for OBUpride_32:

(Start: 1 @26975 has 12 MA's), (2, 27008), (Start: 3 @27125 has 10 MA's), (4, 27131), (6, 27266), (7, 27275), (8, 27368), (9, 27416), (11, 27485), (12, 27488), (13, 27500), (15, 27602), (16, 27605), (17, 27662), (18, 27707), (19, 27713), (20, 27716), (21, 27764), (22, 27776), (24, 27926), (25, 27941), (26, 27998), (27, 28004), (29, 28037), (30, 28049), (31, 28070), (32, 28091), (33, 28103), (34, 28130), (35, 28136), (36, 28148), (37, 28166), (38, 28184), (39, 28205), (40, 28211), (41, 28247), (42, 28292), (43, 28322), (44, 28325),

Gene: Ubuntu_32 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Ubuntu_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Webster2_32 Start: 26981, Stop: 28339, Start Num: 1

Candidate Starts for Webster2_32:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),

Gene: Wishmaker_31 Start: 27131, Stop: 28339, Start Num: 3

Candidate Starts for Wishmaker_31:

(Start: 1 @26981 has 12 MA's), (2, 27014), (Start: 3 @27131 has 10 MA's), (4, 27137), (6, 27272), (7, 27281), (8, 27374), (9, 27422), (11, 27491), (12, 27494), (13, 27506), (15, 27608), (16, 27611), (17, 27668), (18, 27713), (19, 27719), (20, 27722), (21, 27770), (22, 27782), (24, 27932), (25, 27947), (26, 28004), (27, 28010), (29, 28043), (30, 28055), (31, 28076), (32, 28097), (33, 28109), (34, 28136), (35, 28142), (36, 28154), (37, 28172), (38, 28190), (39, 28211), (40, 28217), (41, 28253), (42, 28298), (43, 28328), (44, 28331),