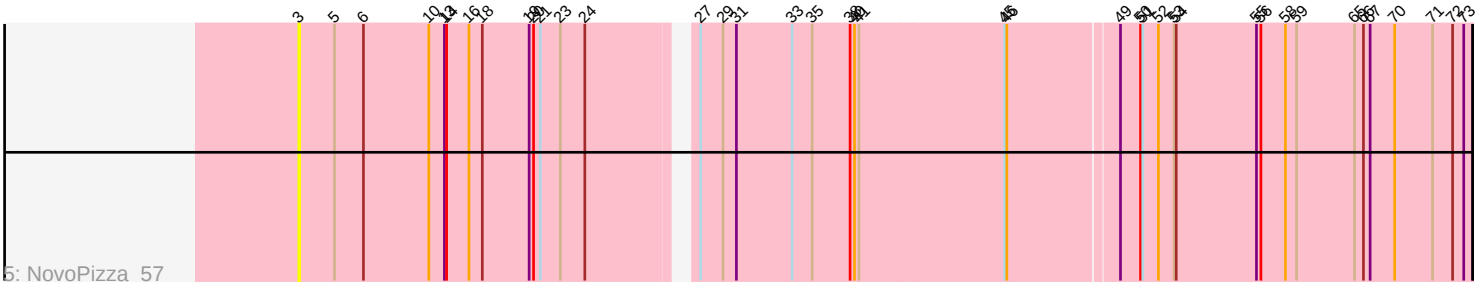
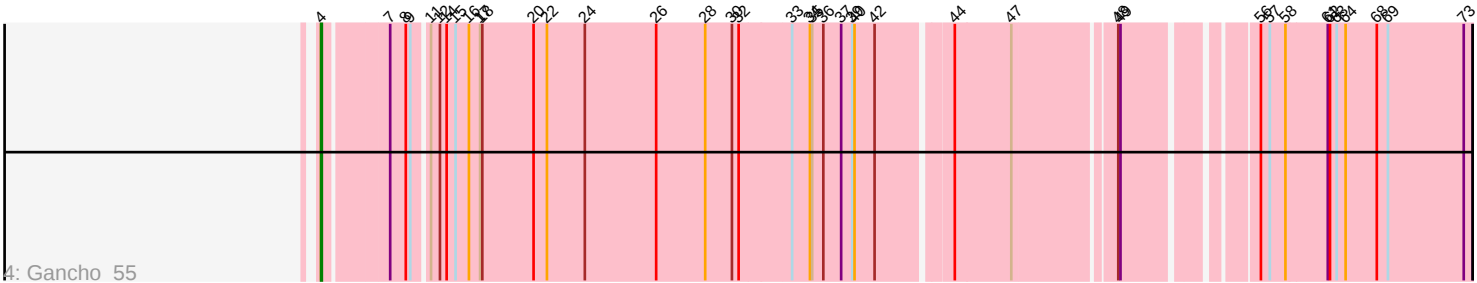
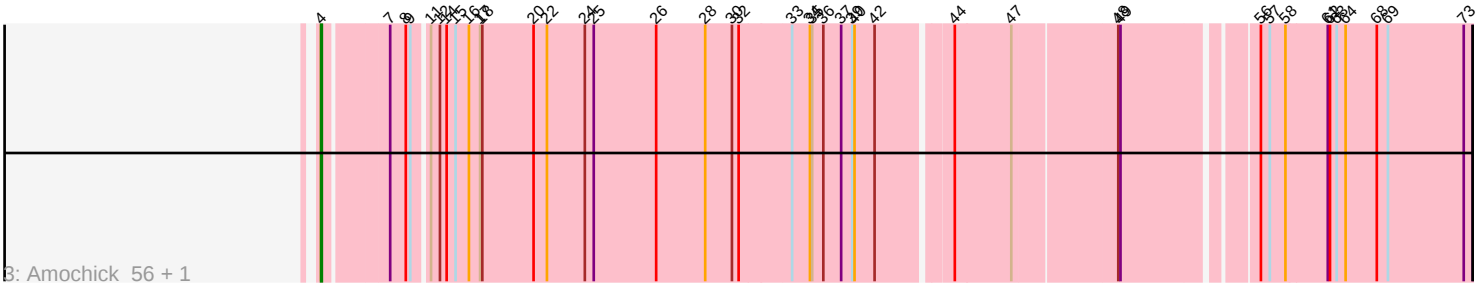
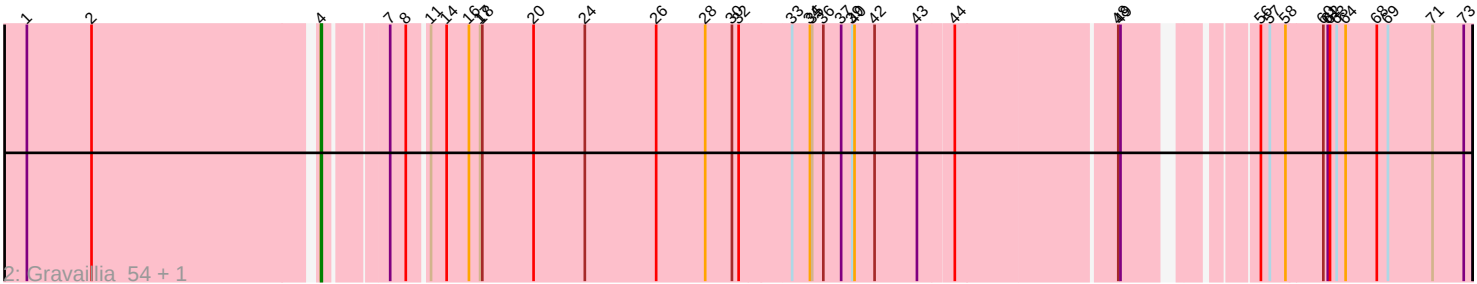
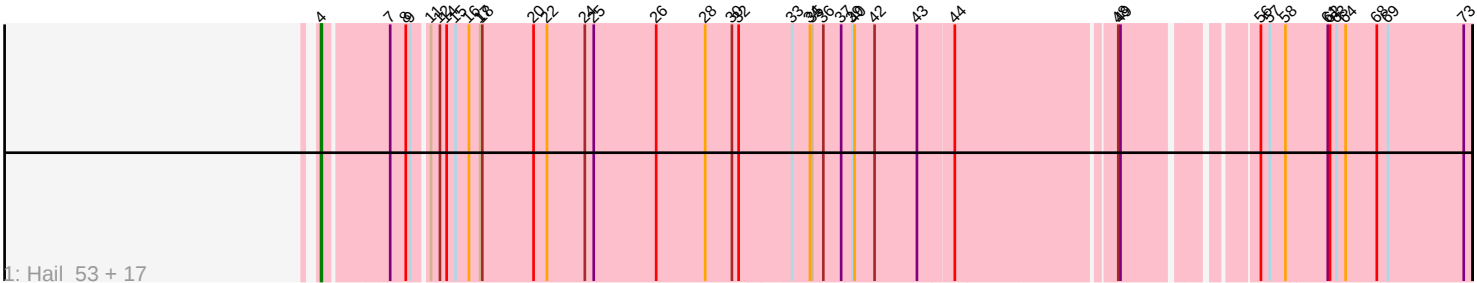


Pham 264772



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 264772 Report

This analysis was run 02/07/26 on database version 634.

Pham number 264772 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Hail_53, Ubuntu_56, BloominB_56, LilHazelnut_56, Hadrien_55, Evanescence_55, Giles_53, Webster2_56, Ein37_56, Amymech_56, Wishmaker_53, Forge_53, Dewey_53, HH92_55, DeepSoil15_56, Luke_55, Kinbote_55, Luna22_53
- Track 2 : Gravaillia_54, OBUpride_56
- Track 3 : Amochick_56, Daegal_58
- Track 4 : Gancho_55
- Track 5 : NovoPizza_57

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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_56, Amymech_56, BloominB_56, Daegal_58, DeepSoil15_56, Dewey_53, Ein37_56, Evanescence_55, Forge_53, Gancho_55, Giles_53, Gravaillia_54, HH92_55, Hadrien_55, Hail_53, Kinbote_55, LilHazelnut_56, Luke_55, Luna22_53, OBUpride_56, Ubuntu_56, Webster2_56, Wishmaker_53,

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

-

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

- NovoPizza_57,

Summary by start number:

Start 3:

- Found in 1 of 24 (4.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_57 (Q),

Start 4:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_56 (Q), Amymech_56 (Q), BloominB_56 (Q), Daegal_58 (Q), DeepSoil15_56 (Q), Dewey_53 (Q), Ein37_56 (Q), Evanesce_55 (Q), Forge_53 (Q), Gancho_55 (Q), Giles_53 (Q), Gravaillia_54 (Q), HH92_55 (Q), Hadrien_55 (Q), Hail_53 (Q), Kinbote_55 (Q), LilHazelNut_56 (Q), Luke_55 (Q), Luna22_53 (Q), OBUpride_56 (Q), Ubuntu_56 (Q), Webster2_56 (Q), Wishmaker_53 (Q),

Summary by clusters:

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

- Start number 4 was manually annotated 22 times for cluster Q.

Gene Information:

Gene: Amochick_56 Start: 39892, Stop: 41346, Start Num: 4

Candidate Starts for Amochick_56:

(Start: 4 @39892 has 22 MA's), (7, 39970), (8, 39991), (9, 39997), (11, 40015), (12, 40027), (14, 40036), (15, 40048), (16, 40066), (17, 40081), (18, 40084), (20, 40153), (22, 40171), (24, 40222), (25, 40234), (26, 40318), (28, 40384), (30, 40420), (32, 40429), (33, 40495), (34, 40519), (35, 40522), (36, 40537), (37, 40561), (39, 40576), (40, 40579), (42, 40606), (44, 40696), (47, 40771), (48, 40903), (49, 40906), (56, 41065), (57, 41077), (58, 41098), (61, 41152), (62, 41155), (63, 41164), (64, 41176), (68, 41218), (69, 41233), (73, 41335),

Gene: Amymech_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Amymech_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: BloominB_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for BloominB_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Daegal_58 Start: 40452, Stop: 41900, Start Num: 4

Candidate Starts for Daegal_58:

(Start: 4 @40452 has 22 MA's), (7, 40530), (8, 40551), (9, 40557), (11, 40575), (12, 40587), (14, 40596), (15, 40608), (16, 40626), (17, 40641), (18, 40644), (20, 40713), (22, 40731), (24, 40782), (25, 40794), (26, 40878), (28, 40944), (30, 40980), (32, 40989), (33, 41055), (34, 41079), (35, 41082), (36,

41097), (37, 41121), (39, 41136), (40, 41139), (42, 41166), (44, 41256), (47, 41331), (48, 41469), (49, 41472), (56, 41619), (57, 41631), (58, 41652), (61, 41706), (62, 41709), (63, 41718), (64, 41730), (68, 41772), (69, 41787), (73, 41889),

Gene: DeepSoil15_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for DeepSoil15_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Dewey_53 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Dewey_53:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Ein37_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Ein37_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Evanescence_55 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Evanescence_55:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Forge_53 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Forge_53:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Gancho_55 Start: 39591, Stop: 41027, Start Num: 4

Candidate Starts for Gancho_55:

(Start: 4 @39591 has 22 MA's), (7, 39669), (8, 39690), (9, 39696), (11, 39714), (12, 39726), (14, 39735), (15, 39747), (16, 39765), (17, 39780), (18, 39783), (20, 39852), (22, 39870), (24, 39921), (26,

40017), (28, 40083), (30, 40119), (32, 40128), (33, 40194), (34, 40218), (35, 40221), (36, 40236), (37, 40260), (39, 40275), (40, 40278), (42, 40305), (44, 40395), (47, 40470), (48, 40596), (49, 40599), (56, 40746), (57, 40758), (58, 40779), (61, 40833), (62, 40836), (63, 40845), (64, 40857), (68, 40899), (69, 40914), (73, 41016),

Gene: Giles_53 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Giles_53:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Gravaillia_54 Start: 39882, Stop: 41324, Start Num: 4

Candidate Starts for Gravaillia_54:

(1, 39504), (2, 39591), (Start: 4 @39882 has 22 MA's), (7, 39957), (8, 39978), (11, 40002), (14, 40023), (16, 40053), (17, 40068), (18, 40071), (20, 40140), (24, 40209), (26, 40305), (28, 40371), (30, 40407), (32, 40416), (33, 40482), (34, 40506), (35, 40509), (36, 40524), (37, 40548), (39, 40563), (40, 40566), (42, 40593), (43, 40650), (44, 40695), (48, 40902), (49, 40905), (56, 41043), (57, 41055), (58, 41076), (60, 41124), (61, 41130), (62, 41133), (63, 41142), (64, 41154), (68, 41196), (69, 41211), (71, 41271), (73, 41313),

Gene: HH92_55 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for HH92_55:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Hadrien_55 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Hadrien_55:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Hail_53 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Hail_53:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Kinbote_55 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Kinbote_55:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: LilHazelNut_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for LilHazelNut_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Luke_55 Start: 39823, Stop: 41271, Start Num: 4

Candidate Starts for Luke_55:

(Start: 4 @39823 has 22 MA's), (7, 39901), (8, 39922), (9, 39928), (11, 39946), (12, 39958), (14, 39967), (15, 39979), (16, 39997), (17, 40012), (18, 40015), (20, 40084), (22, 40102), (24, 40153), (25, 40165), (26, 40249), (28, 40315), (30, 40351), (32, 40360), (33, 40426), (34, 40450), (35, 40453), (36, 40468), (37, 40492), (39, 40507), (40, 40510), (42, 40537), (43, 40594), (44, 40639), (48, 40840), (49, 40843), (56, 40990), (57, 41002), (58, 41023), (61, 41077), (62, 41080), (63, 41089), (64, 41101), (68, 41143), (69, 41158), (73, 41260),

Gene: Luna22_53 Start: 39852, Stop: 41300, Start Num: 4

Candidate Starts for Luna22_53:

(Start: 4 @39852 has 22 MA's), (7, 39930), (8, 39951), (9, 39957), (11, 39975), (12, 39987), (14, 39996), (15, 40008), (16, 40026), (17, 40041), (18, 40044), (20, 40113), (22, 40131), (24, 40182), (25, 40194), (26, 40278), (28, 40344), (30, 40380), (32, 40389), (33, 40455), (34, 40479), (35, 40482), (36, 40497), (37, 40521), (39, 40536), (40, 40539), (42, 40566), (43, 40623), (44, 40668), (48, 40869), (49, 40872), (56, 41019), (57, 41031), (58, 41052), (61, 41106), (62, 41109), (63, 41118), (64, 41130), (68, 41172), (69, 41187), (73, 41289),

Gene: NovoPizza_57 Start: 40507, Stop: 42033, Start Num: 3

Candidate Starts for NovoPizza_57:

(3, 40507), (5, 40555), (6, 40594), (10, 40681), (13, 40702), (14, 40705), (16, 40735), (18, 40753), (19, 40816), (20, 40822), (21, 40831), (23, 40858), (24, 40891), (27, 41011), (29, 41041), (31, 41059), (33, 41134), (35, 41161), (38, 41212), (40, 41218), (41, 41224), (45, 41416), (46, 41419), (49, 41560), (50, 41587), (51, 41590), (52, 41611), (53, 41632), (54, 41635), (55, 41743), (56, 41749), (58, 41782), (59, 41797), (65, 41875), (66, 41887), (67, 41896), (70, 41929), (71, 41980), (72, 42007), (73, 42022),

Gene: OBUpride_56 Start: 39882, Stop: 41312, Start Num: 4

Candidate Starts for OBUpride_56:

(1, 39504), (2, 39591), (Start: 4 @39882 has 22 MA's), (7, 39957), (8, 39978), (11, 40002), (14, 40023), (16, 40053), (17, 40068), (18, 40071), (20, 40140), (24, 40209), (26, 40305), (28, 40371), (30, 40407), (32, 40416), (33, 40482), (34, 40506), (35, 40509), (36, 40524), (37, 40548), (39, 40563), (40, 40566), (42, 40593), (43, 40650), (44, 40695), (48, 40890), (49, 40893), (56, 41031), (57, 41043), (58, 41064), (60, 41112), (61, 41118), (62, 41121), (63, 41130), (64, 41142), (68, 41184), (69, 41199), (71, 41259), (73, 41301),

Gene: Ubuntu_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Ubuntu_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Webster2_56 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Webster2_56:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),

Gene: Wishmaker_53 Start: 39868, Stop: 41316, Start Num: 4

Candidate Starts for Wishmaker_53:

(Start: 4 @39868 has 22 MA's), (7, 39946), (8, 39967), (9, 39973), (11, 39991), (12, 40003), (14, 40012), (15, 40024), (16, 40042), (17, 40057), (18, 40060), (20, 40129), (22, 40147), (24, 40198), (25, 40210), (26, 40294), (28, 40360), (30, 40396), (32, 40405), (33, 40471), (34, 40495), (35, 40498), (36, 40513), (37, 40537), (39, 40552), (40, 40555), (42, 40582), (43, 40639), (44, 40684), (48, 40885), (49, 40888), (56, 41035), (57, 41047), (58, 41068), (61, 41122), (62, 41125), (63, 41134), (64, 41146), (68, 41188), (69, 41203), (73, 41305),