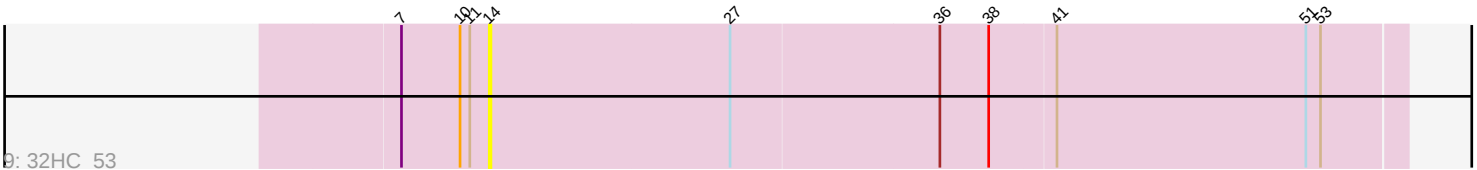
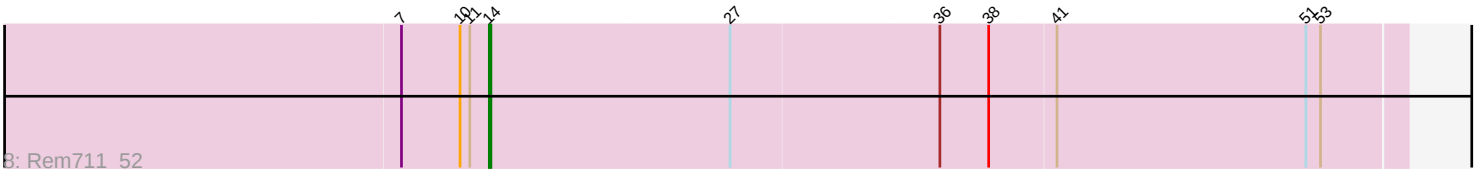
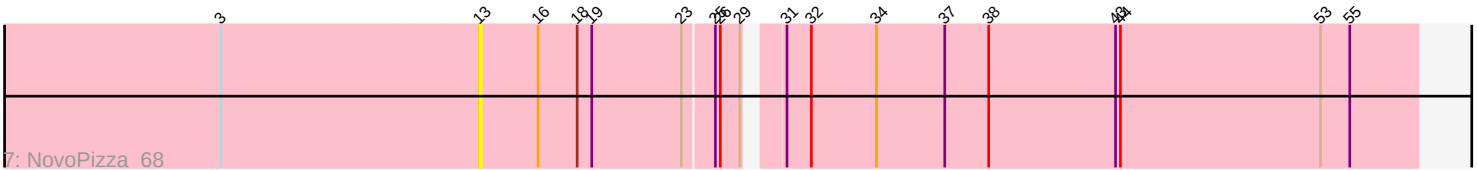
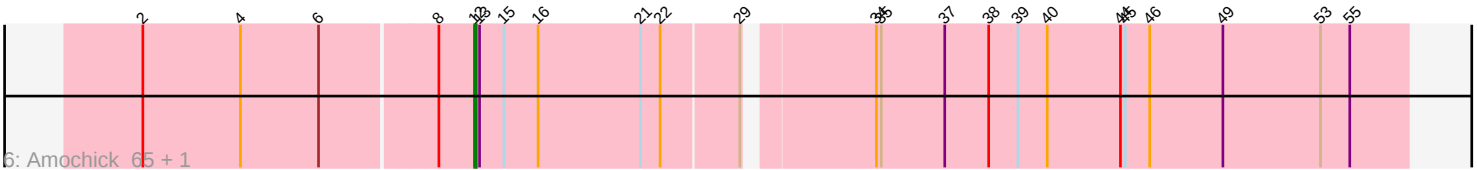
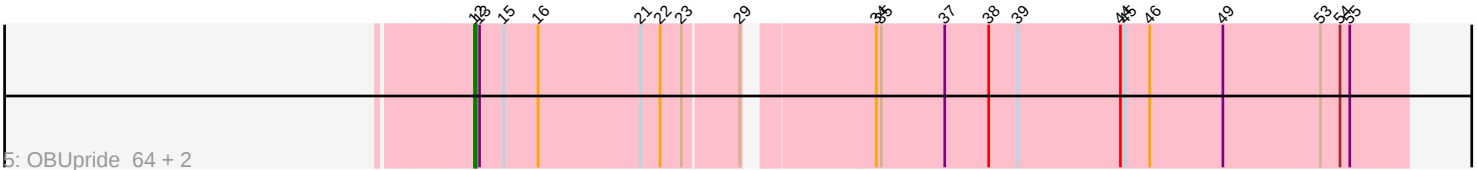
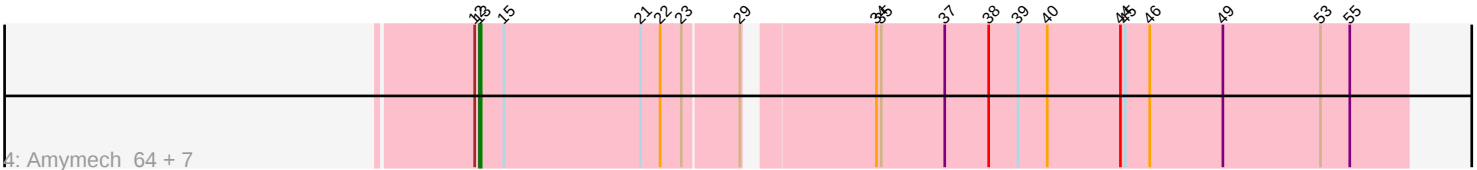
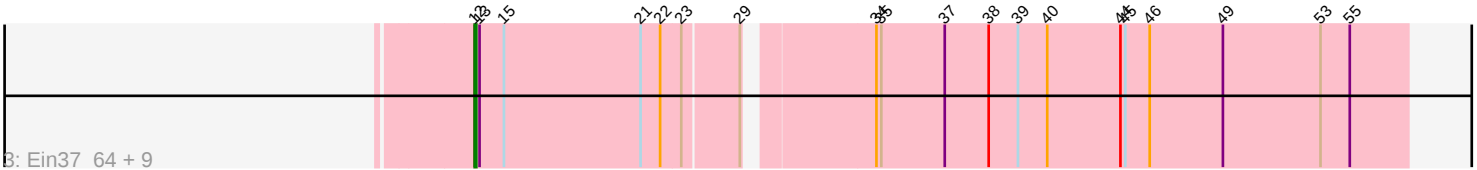
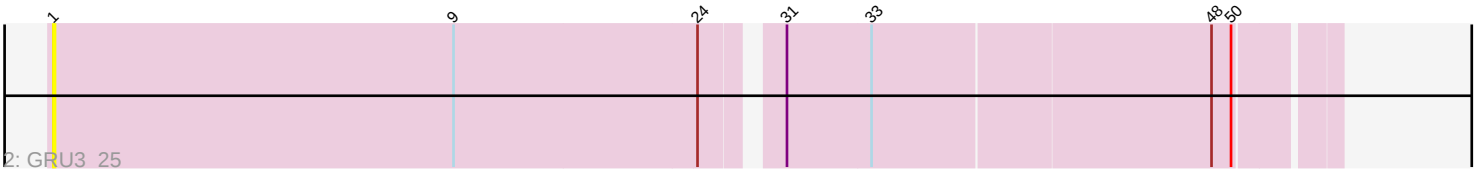
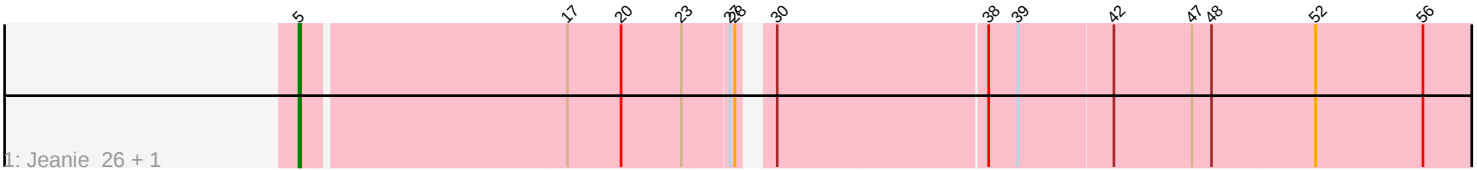


Pham 280738



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 280738 Report

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

Pham number 280738 has 29 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Jeanie_26, McGonagall_26
- Track 2 : GRU3_25
- Track 3 : Ein37_64, HH92_63, Dewey_61, Kinbote_63, Hadrien_63, LilHazelNut_64, Evanescence_63, DeepSoil15_64, Giles_61, Webster2_64
- Track 4 : Amymech_64, Forge_61, Wishmaker_61, Luke_63, Ubuntu_64, Luna22_61, Hail_61, BloominB_64
- Track 5 : OBUpride_64, Gravaillia_62, Gancho_63
- Track 6 : Amochick_65, Daegal_67
- Track 7 : NovoPizza_68
- Track 8 : Rem711_52
- Track 9 : 32HC_53

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

The start number called the most often in the published annotations is 12, it was called in 15 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_65, Daegal_67, DeepSoil15_64, Dewey_61, Ein37_64, Evanescence_63, Gancho_63, Giles_61, Gravaillia_62, HH92_63, Hadrien_63, Kinbote_63, LilHazelNut_64, OBUpride_64, Webster2_64,

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

- Amymech_64, BloominB_64, Forge_61, Hail_61, Luke_63, Luna22_61, Ubuntu_64, Wishmaker_61,

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

- 32HC_53, GRU3_25, Jeanie_26, McGonagall_26, NovoPizza_68, Rem711_52,

Summary by start number:

Start 1:

- Found in 1 of 29 (3.4%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: GRU3_25 (CW2),

Start 5:

- Found in 2 of 29 (6.9%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jeanie_26 (CW1), McGonagall_26 (CW1),

Start 12:

- Found in 23 of 29 (79.3%) of genes in pham
- Manual Annotations of this start: 15 of 25
- Called 65.2% of time when present
- Phage (with cluster) where this start called: Amochick_65 (Q), Daegal_67 (Q), DeepSoil15_64 (Q), Dewey_61 (Q), Ein37_64 (Q), Evanesce_63 (Q), Gancho_63 (Q), Giles_61 (Q), Gravaillia_62 (Q), HH92_63 (Q), Hadrien_63 (Q), Kinbote_63 (Q), LilHazelnut_64 (Q), OBUpride_64 (Q), Webster2_64 (Q),

Start 13:

- Found in 24 of 29 (82.8%) of genes in pham
- Manual Annotations of this start: 7 of 25
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Amymech_64 (Q), BloominB_64 (Q), Forge_61 (Q), Hail_61 (Q), Luke_63 (Q), Luna22_61 (Q), NovoPizza_68 (Q), Ubuntu_64 (Q), Wishmaker_61 (Q),

Start 14:

- Found in 2 of 29 (6.9%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_53 (Z), Rem711_52 (Z),

Summary by clusters:

There are 4 clusters represented in this pham: Q, CW1, Z, CW2,

Info for manual annotations of cluster CW1:

- Start number 5 was manually annotated 2 times for cluster CW1.

Info for manual annotations of cluster Q:

- Start number 12 was manually annotated 15 times for cluster Q.
- Start number 13 was manually annotated 7 times for cluster Q.

Info for manual annotations of cluster Z:

- Start number 14 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_53 Start: 36136, Stop: 36690, Start Num: 14

Candidate Starts for 32HC_53:

(7, 36082), (10, 36118), (11, 36124), (Start: 14 @36136 has 1 MA's), (27, 36283), (36, 36409), (38, 36439), (41, 36478), (51, 36631), (53, 36640),

Gene: Amochick_65 Start: 44443, Stop: 44997, Start Num: 12

Candidate Starts for Amochick_65:

(2, 44248), (4, 44308), (6, 44356), (8, 44422), (Start: 12 @44443 has 15 MA's), (Start: 13 @44446 has 7 MA's), (15, 44461), (16, 44482), (21, 44545), (22, 44557), (29, 44602), (34, 44671), (35, 44674), (37, 44713), (38, 44740), (39, 44758), (40, 44776), (44, 44821), (45, 44824), (46, 44839), (49, 44884), (53, 44944), (55, 44962),

Gene: Amymech_64 Start: 43962, Stop: 44513, Start Num: 13

Candidate Starts for Amymech_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: BloominB_64 Start: 43962, Stop: 44513, Start Num: 13

Candidate Starts for BloominB_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Daegal_67 Start: 45005, Stop: 45559, Start Num: 12

Candidate Starts for Daegal_67:

(2, 44810), (4, 44870), (6, 44918), (8, 44984), (Start: 12 @45005 has 15 MA's), (Start: 13 @45008 has 7 MA's), (15, 45023), (16, 45044), (21, 45107), (22, 45119), (29, 45164), (34, 45233), (35, 45236), (37, 45275), (38, 45302), (39, 45320), (40, 45338), (44, 45383), (45, 45386), (46, 45401), (49, 45446), (53, 45506), (55, 45524),

Gene: DeepSoil15_64 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for DeepSoil15_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Dewey_61 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Dewey_61:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Ein37_64 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Ein37_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Evanescence_63 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Evanescence_63:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Forge_61 Start: 43962, Stop: 44513, Start Num: 13

Candidate Starts for Forge_61:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: GRU3_25 Start: 16472, Stop: 17227, Start Num: 1

Candidate Starts for GRU3_25:

(1, 16472), (9, 16718), (24, 16865), (31, 16904), (33, 16955), (48, 17159), (50, 17171),

Gene: Gancho_63 Start: 43686, Stop: 44240, Start Num: 12

Candidate Starts for Gancho_63:

(Start: 12 @43686 has 15 MA's), (Start: 13 @43689 has 7 MA's), (15, 43704), (16, 43725), (21, 43788), (22, 43800), (23, 43812), (29, 43845), (34, 43914), (35, 43917), (37, 43956), (38, 43983), (39, 44001), (44, 44064), (45, 44067), (46, 44082), (49, 44127), (53, 44187), (54, 44199), (55, 44205),

Gene: Giles_61 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Giles_61:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Gravaillia_62 Start: 43967, Stop: 44521, Start Num: 12

Candidate Starts for Gravaillia_62:

(Start: 12 @43967 has 15 MA's), (Start: 13 @43970 has 7 MA's), (15, 43985), (16, 44006), (21, 44069), (22, 44081), (23, 44093), (29, 44126), (34, 44195), (35, 44198), (37, 44237), (38, 44264), (39, 44282), (44, 44345), (45, 44348), (46, 44363), (49, 44408), (53, 44468), (54, 44480), (55, 44486),

Gene: HH92_63 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for HH92_63:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Hadrien_63 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Hadrien_63:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Hail_61 Start: 43962, Stop: 44513, Start Num: 13

Candidate Starts for Hail_61:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Jeanie_26 Start: 15627, Stop: 16337, Start Num: 5

Candidate Starts for Jeanie_26:

(Start: 5 @15627 has 2 MA's), (17, 15783), (20, 15816), (23, 15852), (27, 15879), (28, 15882), (30, 15894), (38, 16020), (39, 16038), (42, 16095), (47, 16143), (48, 16155), (52, 16218), (56, 16284),

Gene: Kinbote_63 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Kinbote_63:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: LilHazelNut_64 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for LilHazelNut_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Luke_63 Start: 43917, Stop: 44468, Start Num: 13

Candidate Starts for Luke_63:

(Start: 12 @43914 has 15 MA's), (Start: 13 @43917 has 7 MA's), (15, 43932), (21, 44016), (22, 44028), (23, 44040), (29, 44073), (34, 44142), (35, 44145), (37, 44184), (38, 44211), (39, 44229), (40, 44247), (44, 44292), (45, 44295), (46, 44310), (49, 44355), (53, 44415), (55, 44433),

Gene: Luna22_61 Start: 43946, Stop: 44497, Start Num: 13

Candidate Starts for Luna22_61:

(Start: 12 @43943 has 15 MA's), (Start: 13 @43946 has 7 MA's), (15, 43961), (21, 44045), (22, 44057), (23, 44069), (29, 44102), (34, 44171), (35, 44174), (37, 44213), (38, 44240), (39, 44258), (40, 44276), (44, 44321), (45, 44324), (46, 44339), (49, 44384), (53, 44444), (55, 44462),

Gene: McGonagall_26 Start: 15628, Stop: 16338, Start Num: 5

Candidate Starts for McGonagall_26:

(Start: 5 @15628 has 2 MA's), (17, 15784), (20, 15817), (23, 15853), (27, 15880), (28, 15883), (30, 15895), (38, 16021), (39, 16039), (42, 16096), (47, 16144), (48, 16156), (52, 16219), (56, 16285),

Gene: NovoPizza_68 Start: 45546, Stop: 46103, Start Num: 13

Candidate Starts for NovoPizza_68:

(3, 45390), (Start: 13 @45546 has 7 MA's), (16, 45582), (18, 45606), (19, 45615), (23, 45669), (25, 45687), (26, 45690), (29, 45702), (31, 45717), (32, 45732), (34, 45771), (37, 45813), (38, 45840), (43, 45918), (44, 45921), (53, 46044), (55, 46062),

Gene: OBUpride_64 Start: 43955, Stop: 44509, Start Num: 12

Candidate Starts for OBUpride_64:

(Start: 12 @43955 has 15 MA's), (Start: 13 @43958 has 7 MA's), (15, 43973), (16, 43994), (21, 44057), (22, 44069), (23, 44081), (29, 44114), (34, 44183), (35, 44186), (37, 44225), (38, 44252), (39, 44270), (44, 44333), (45, 44336), (46, 44351), (49, 44396), (53, 44456), (54, 44468), (55, 44474),

Gene: Rem711_52 Start: 36120, Stop: 36674, Start Num: 14

Candidate Starts for Rem711_52:

(7, 36066), (10, 36102), (11, 36108), (Start: 14 @36120 has 1 MA's), (27, 36267), (36, 36393), (38, 36423), (41, 36462), (51, 36615), (53, 36624),

Gene: Ubuntu_64 Start: 43962, Stop: 44513, Start Num: 13

Candidate Starts for Ubuntu_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Webster2_64 Start: 43959, Stop: 44513, Start Num: 12

Candidate Starts for Webster2_64:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),

Gene: Wishmaker_61 Start: 43962, Stop: 44513, Start Num: 13

Candidate Starts for Wishmaker_61:

(Start: 12 @43959 has 15 MA's), (Start: 13 @43962 has 7 MA's), (15, 43977), (21, 44061), (22, 44073), (23, 44085), (29, 44118), (34, 44187), (35, 44190), (37, 44229), (38, 44256), (39, 44274), (40, 44292), (44, 44337), (45, 44340), (46, 44355), (49, 44400), (53, 44460), (55, 44478),