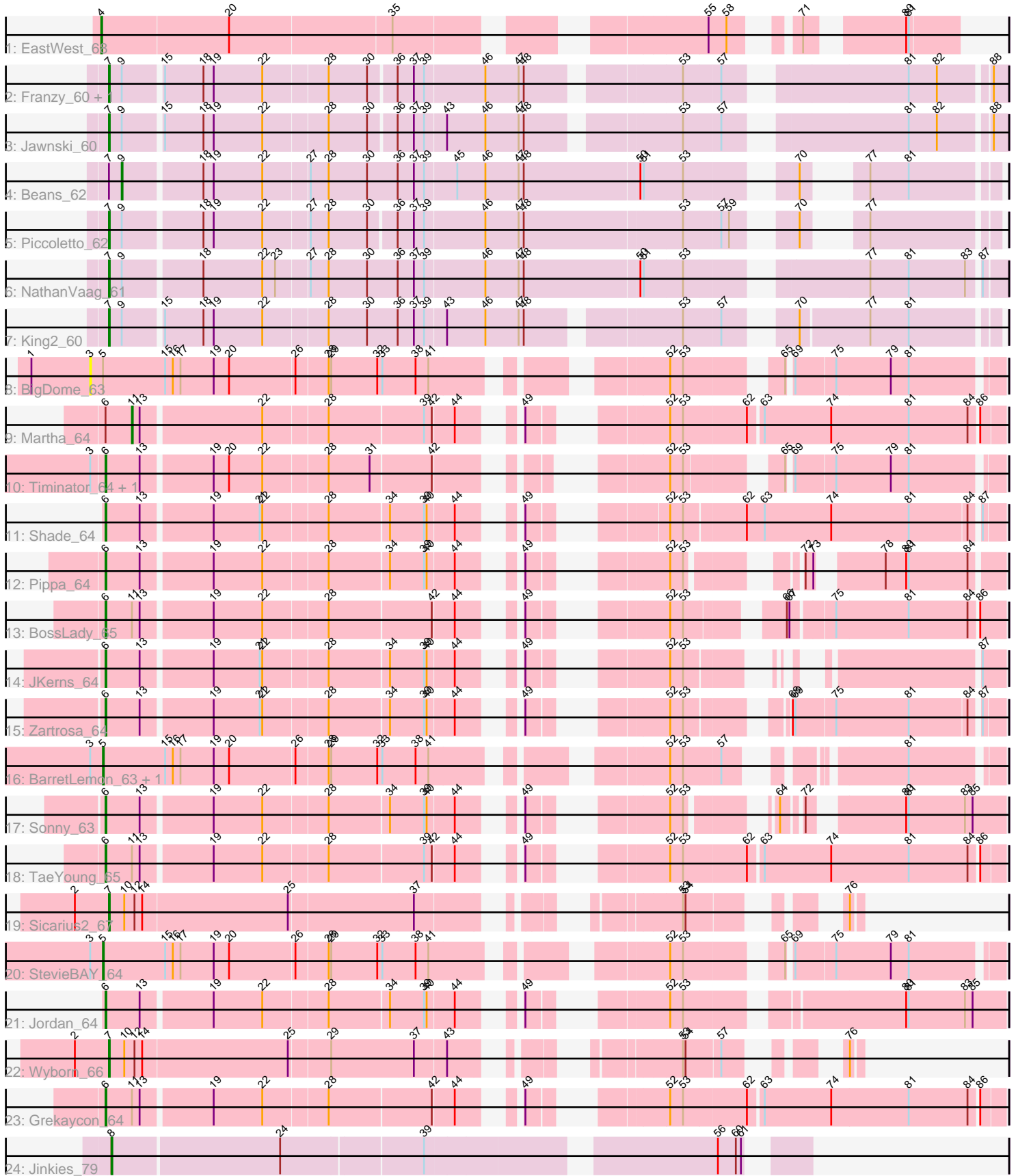


Pham 309103



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 309103 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309103 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EastWest_68
- Track 2 : Franzy_60, Brent_61
- Track 3 : Jawnski_60
- Track 4 : Beans_62
- Track 5 : Piccoletto_62
- Track 6 : NathanVaag_61
- Track 7 : King2_60
- Track 8 : BigDome_63
- Track 9 : Martha_64
- Track 10 : Timinator_64, LeeroyJ_64
- Track 11 : Shade_64
- Track 12 : Pippa_64
- Track 13 : BossLady_65
- Track 14 : JKerns_64
- Track 15 : Zartrosa_64
- Track 16 : BarretLemon_63, GravityBall_63
- Track 17 : Sonny_63
- Track 18 : TaeYoung_65
- Track 19 : Sicarius2_67
- Track 20 : StevieBAY_64
- Track 21 : Jordan_64
- Track 22 : Wyborn_66
- Track 23 : Grekaycon_64
- Track 24 : Jinkies_79

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BossLady_65, Grekaycon_64, JKerns_64, Jordan_64, LeeroyJ_64, Pippa_64, Shade_64, Sonny_63, TaeYoung_65, Timinator_64, Zartrosa_64,

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

- Martha_64,

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

- BarretLemon_63, Beans_62, BigDome_63, Brent_61, EastWest_68, Franzy_60, GravityBall_63, Jawnski_60, Jinkies_79, King2_60, NathanVaag_61, Piccoletto_62, Sicarius2_67, StevieBAY_64, Wyborn_66,

Summary by start number:

Start 3:

- Found in 6 of 27 (22.2%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: BigDome_63 (AO2),

Start 4:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EastWest_68 (AO),

Start 5:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BarretLemon_63 (AO2), GravityBall_63 (AO2), StevieBAY_64 (AO2),

Start 6:

- Found in 12 of 27 (44.4%) of genes in pham
- Manual Annotations of this start: 11 of 26
- Called 91.7% of time when present
- Phage (with cluster) where this start called: BossLady_65 (AO2), Grekaycon_64 (AO2), JKerns_64 (AO2), Jordan_64 (AO2), LeeroyJ_64 (AO2), Pippa_64 (AO2), Shade_64 (AO2), Sonny_63 (AO2), TaeYoung_65 (AO2), Timinator_64 (AO2), Zartrosa_64 (AO2),

Start 7:

- Found in 9 of 27 (33.3%) of genes in pham
- Manual Annotations of this start: 8 of 26
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Brent_61 (AO1), Franzy_60 (AO1), Jawnski_60 (AO1), King2_60 (AO1), NathanVaag_61 (AO1), Piccoletto_62 (AO1), Sicarius2_67 (AO2), Wyborn_66 (AO2),

Start 8:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jinkies_79 (FL),

Start 9:

- Found in 7 of 27 (25.9%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Beans_62 (AO1),

Start 11:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Martha_64 (AO2),

Summary by clusters:

There are 4 clusters represented in this pham: AO, FL, AO2, AO1,

Info for manual annotations of cluster AO:

- Start number 4 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 7 was manually annotated 6 times for cluster AO1.
- Start number 9 was manually annotated 1 time for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 5 was manually annotated 3 times for cluster AO2.
- Start number 6 was manually annotated 11 times for cluster AO2.
- Start number 7 was manually annotated 2 times for cluster AO2.
- Start number 11 was manually annotated 1 time for cluster AO2.

Info for manual annotations of cluster FL:

- Start number 8 was manually annotated 1 time for cluster FL.

Gene Information:

Gene: BarretLemon_63 Start: 41758, Stop: 42645, Start Num: 5

Candidate Starts for BarretLemon_63:

(3, 41743), (Start: 5 @41758 has 3 MA's), (15, 41830), (16, 41839), (17, 41848), (19, 41887), (20, 41905), (26, 41980), (28, 42016), (29, 42019), (32, 42073), (33, 42079), (38, 42118), (41, 42133), (52, 42343), (53, 42358), (57, 42400), (81, 42547),

Gene: Beans_62 Start: 41800, Stop: 42702, Start Num: 9

Candidate Starts for Beans_62:

(Start: 7 @41785 has 8 MA's), (Start: 9 @41800 has 1 MA's), (18, 41887), (19, 41899), (22, 41956), (27, 42007), (28, 42028), (30, 42073), (36, 42109), (37, 42127), (39, 42139), (45, 42175), (46, 42208), (47, 42247), (48, 42253), (50, 42385), (51, 42388), (53, 42433), (70, 42529), (77, 42562), (81, 42607),

Gene: BigDome_63 Start: 41982, Stop: 42917, Start Num: 3

Candidate Starts for BigDome_63:

(1, 41913), (3, 41982), (Start: 5 @41997 has 3 MA's), (15, 42069), (16, 42078), (17, 42087), (19, 42126), (20, 42144), (26, 42219), (28, 42255), (29, 42258), (32, 42312), (33, 42318), (38, 42357), (41, 42372), (52, 42582), (53, 42597), (65, 42687), (69, 42690), (75, 42735), (79, 42798), (81, 42819),

Gene: BossLady_65 Start: 42154, Stop: 43032, Start Num: 6

Candidate Starts for BossLady_65:

(Start: 6 @42154 has 11 MA's), (Start: 11 @42184 has 1 MA's), (13, 42193), (19, 42271), (22, 42328), (28, 42400), (42, 42517), (44, 42541), (49, 42583), (52, 42691), (53, 42706), (66, 42793), (67, 42796), (75, 42841), (81, 42925), (84, 42994), (86, 43003),

Gene: Brent_61 Start: 41856, Stop: 42800, Start Num: 7

Candidate Starts for Brent_61:

(Start: 7 @41856 has 8 MA's), (Start: 9 @41871 has 1 MA's), (15, 41913), (18, 41958), (19, 41970), (22, 42027), (28, 42099), (30, 42144), (36, 42174), (37, 42192), (39, 42204), (46, 42273), (47, 42312), (48, 42318), (53, 42474), (57, 42516), (81, 42696), (82, 42729), (88, 42783),

Gene: EastWest_68 Start: 41040, Stop: 41876, Start Num: 4

Candidate Starts for EastWest_68:

(Start: 4 @41040 has 1 MA's), (20, 41187), (35, 41373), (55, 41661), (58, 41682), (71, 41727), (80, 41817), (81, 41820),

Gene: Franzy_60 Start: 41872, Stop: 42816, Start Num: 7

Candidate Starts for Franzy_60:

(Start: 7 @41872 has 8 MA's), (Start: 9 @41887 has 1 MA's), (15, 41929), (18, 41974), (19, 41986), (22, 42043), (28, 42115), (30, 42160), (36, 42190), (37, 42208), (39, 42220), (46, 42289), (47, 42328), (48, 42334), (53, 42490), (57, 42532), (81, 42712), (82, 42745), (88, 42799),

Gene: GravityBall_63 Start: 42058, Stop: 42945, Start Num: 5

Candidate Starts for GravityBall_63:

(3, 42043), (Start: 5 @42058 has 3 MA's), (15, 42130), (16, 42139), (17, 42148), (19, 42187), (20, 42205), (26, 42280), (28, 42316), (29, 42319), (32, 42373), (33, 42379), (38, 42418), (41, 42433), (52, 42643), (53, 42658), (57, 42700), (81, 42847),

Gene: Grekaycon_64 Start: 42033, Stop: 42944, Start Num: 6

Candidate Starts for Grekaycon_64:

(Start: 6 @42033 has 11 MA's), (Start: 11 @42063 has 1 MA's), (13, 42072), (19, 42150), (22, 42207), (28, 42279), (42, 42396), (44, 42420), (49, 42462), (52, 42570), (53, 42585), (62, 42657), (63, 42672), (74, 42750), (81, 42840), (84, 42909), (86, 42918),

Gene: JKerns_64 Start: 42255, Stop: 43070, Start Num: 6

Candidate Starts for JKerns_64:

(Start: 6 @42255 has 11 MA's), (13, 42294), (19, 42372), (21, 42426), (22, 42429), (28, 42501), (34, 42567), (39, 42606), (40, 42609), (44, 42639), (49, 42681), (52, 42789), (53, 42804), (87, 43044),

Gene: Jawnski_60 Start: 41381, Stop: 42325, Start Num: 7

Candidate Starts for Jawnski_60:

(Start: 7 @41381 has 8 MA's), (Start: 9 @41396 has 1 MA's), (15, 41438), (18, 41483), (19, 41495), (22, 41552), (28, 41624), (30, 41669), (36, 41699), (37, 41717), (39, 41729), (43, 41753), (46, 41798), (47, 41837), (48, 41843), (53, 41999), (57, 42041), (81, 42221), (82, 42254), (88, 42308),

Gene: Jinkies_79 Start: 45648, Stop: 46382, Start Num: 8

Candidate Starts for Jinkies_79:

(Start: 8 @45648 has 1 MA's), (24, 45840), (39, 45999), (56, 46305), (60, 46326), (61, 46332),

Gene: Jordan_64 Start: 42135, Stop: 43022, Start Num: 6

Candidate Starts for Jordan_64:

(Start: 6 @42135 has 11 MA's), (13, 42174), (19, 42252), (22, 42309), (28, 42381), (34, 42447), (39, 42486), (40, 42489), (44, 42519), (49, 42561), (52, 42669), (53, 42684), (80, 42906), (81, 42909), (83, 42975), (85, 42984),

Gene: King2_60 Start: 41751, Stop: 42689, Start Num: 7

Candidate Starts for King2_60:

(Start: 7 @41751 has 8 MA's), (Start: 9 @41766 has 1 MA's), (15, 41808), (18, 41853), (19, 41865), (22, 41922), (28, 41994), (30, 42039), (36, 42075), (37, 42093), (39, 42105), (43, 42129), (46, 42174), (47, 42213), (48, 42219), (53, 42375), (57, 42417), (70, 42471), (77, 42549), (81, 42594),

Gene: LeeroyJ_64 Start: 42041, Stop: 42907, Start Num: 6

Candidate Starts for LeeroyJ_64:

(3, 42026), (Start: 6 @42041 has 11 MA's), (13, 42080), (19, 42158), (20, 42176), (22, 42215), (28, 42287), (31, 42335), (42, 42404), (52, 42575), (53, 42590), (65, 42677), (69, 42680), (75, 42725), (79, 42788), (81, 42809),

Gene: Martha_64 Start: 42232, Stop: 43113, Start Num: 11

Candidate Starts for Martha_64:

(Start: 6 @42202 has 11 MA's), (Start: 11 @42232 has 1 MA's), (13, 42241), (22, 42376), (28, 42448), (39, 42556), (42, 42565), (44, 42589), (49, 42631), (52, 42739), (53, 42754), (62, 42826), (63, 42841), (74, 42919), (81, 43009), (84, 43078), (86, 43087),

Gene: NathanVaag_61 Start: 41571, Stop: 42545, Start Num: 7

Candidate Starts for NathanVaag_61:

(Start: 7 @41571 has 8 MA's), (Start: 9 @41586 has 1 MA's), (18, 41673), (22, 41742), (23, 41757), (27, 41793), (28, 41814), (30, 41859), (36, 41895), (37, 41913), (39, 41925), (46, 41994), (47, 42033), (48, 42039), (50, 42171), (51, 42174), (53, 42219), (77, 42396), (81, 42441), (83, 42507), (87, 42519),

Gene: Piccoletto_62 Start: 41788, Stop: 42699, Start Num: 7

Candidate Starts for Piccoletto_62:

(Start: 7 @41788 has 8 MA's), (Start: 9 @41803 has 1 MA's), (18, 41890), (19, 41902), (22, 41959), (27, 42010), (28, 42031), (30, 42076), (36, 42106), (37, 42124), (39, 42136), (46, 42205), (47, 42244), (48, 42250), (53, 42430), (57, 42472), (59, 42481), (70, 42526), (77, 42559),

Gene: Pippa_64 Start: 42086, Stop: 42919, Start Num: 6

Candidate Starts for Pippa_64:

(Start: 6 @42086 has 11 MA's), (13, 42125), (19, 42203), (22, 42260), (28, 42332), (34, 42398), (39, 42437), (40, 42440), (44, 42470), (49, 42512), (52, 42620), (53, 42635), (72, 42722), (73, 42731), (78, 42788), (80, 42812), (81, 42815), (84, 42884),

Gene: Shade_64 Start: 41991, Stop: 42893, Start Num: 6

Candidate Starts for Shade_64:

(Start: 6 @41991 has 11 MA's), (13, 42030), (19, 42108), (21, 42162), (22, 42165), (28, 42237), (34, 42303), (39, 42342), (40, 42345), (44, 42375), (49, 42417), (52, 42522), (53, 42537), (62, 42606), (63, 42627), (74, 42705), (81, 42795), (84, 42861), (87, 42870),

Gene: Sicarius2_67 Start: 41135, Stop: 41818, Start Num: 7

Candidate Starts for Sicarius2_67:

(2, 41096), (Start: 7 @41135 has 8 MA's), (10, 41153), (12, 41165), (14, 41174), (25, 41342), (37, 41483), (53, 41693), (54, 41696), (76, 41807),

Gene: Sonny_63 Start: 41740, Stop: 42582, Start Num: 6

Candidate Starts for Sonny_63:

(Start: 6 @41740 has 11 MA's), (13, 41779), (19, 41857), (22, 41914), (28, 41986), (34, 42052), (39, 42091), (40, 42094), (44, 42124), (49, 42166), (52, 42274), (53, 42289), (64, 42358), (72, 42376), (80, 42466), (81, 42469), (83, 42535), (85, 42544),

Gene: StevieBAY_64 Start: 42305, Stop: 43225, Start Num: 5

Candidate Starts for StevieBAY_64:

(3, 42290), (Start: 5 @42305 has 3 MA's), (15, 42377), (16, 42386), (17, 42395), (19, 42434), (20, 42452), (26, 42527), (28, 42563), (29, 42566), (32, 42620), (33, 42626), (38, 42665), (41, 42680), (52, 42890), (53, 42905), (65, 42995), (69, 42998), (75, 43043), (79, 43106), (81, 43127),

Gene: TaeYoung_65 Start: 42175, Stop: 43086, Start Num: 6

Candidate Starts for TaeYoung_65:

(Start: 6 @42175 has 11 MA's), (Start: 11 @42205 has 1 MA's), (13, 42214), (19, 42292), (22, 42349), (28, 42421), (39, 42529), (42, 42538), (44, 42562), (49, 42604), (52, 42712), (53, 42727), (62, 42799), (63, 42814), (74, 42892), (81, 42982), (84, 43051), (86, 43060),

Gene: Timinator_64 Start: 42154, Stop: 43020, Start Num: 6

Candidate Starts for Timinator_64:

(3, 42139), (Start: 6 @42154 has 11 MA's), (13, 42193), (19, 42271), (20, 42289), (22, 42328), (28, 42400), (31, 42448), (42, 42517), (52, 42688), (53, 42703), (65, 42790), (69, 42793), (75, 42838), (79, 42901), (81, 42922),

Gene: Wyborn_66 Start: 41834, Stop: 42517, Start Num: 7

Candidate Starts for Wyborn_66:

(2, 41795), (Start: 7 @41834 has 8 MA's), (10, 41852), (12, 41864), (14, 41873), (25, 42041), (29, 42086), (37, 42182), (43, 42218), (53, 42392), (54, 42395), (57, 42434), (76, 42506),

Gene: Zartrosa_64 Start: 42038, Stop: 42904, Start Num: 6

Candidate Starts for Zartrosa_64:

(Start: 6 @42038 has 11 MA's), (13, 42077), (19, 42155), (21, 42209), (22, 42212), (28, 42284), (34, 42350), (39, 42389), (40, 42392), (44, 42422), (49, 42464), (52, 42572), (53, 42587), (68, 42674), (69, 42677), (75, 42722), (81, 42806), (84, 42872), (87, 42881),