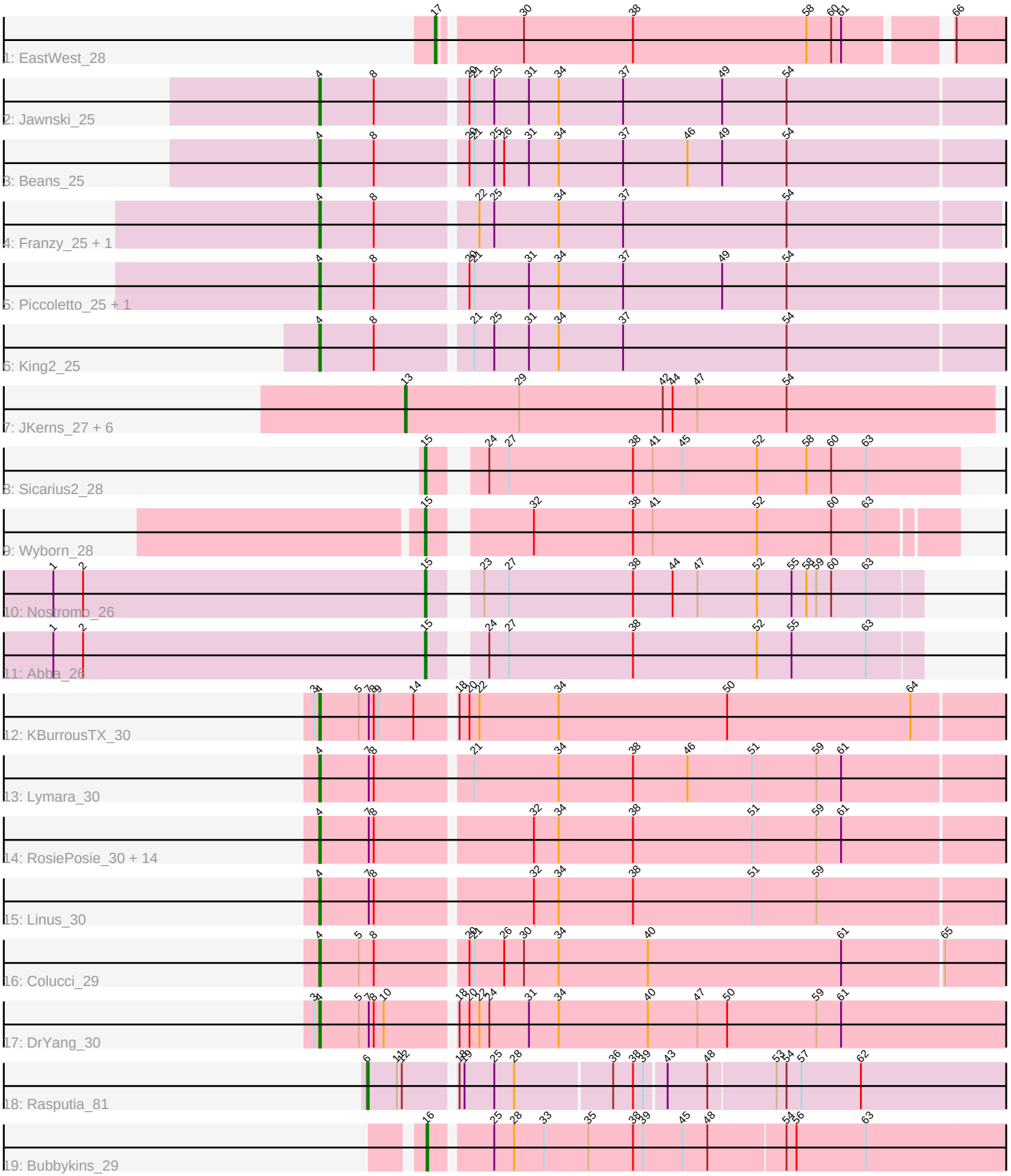
Pham 347793


1: EastWest_28
2: Jawnski_25
3: Beans_25
4: Franzy_25 + 1
5: Piccoletto_25 + 1
6: King2_25
7: JKerns_27 + 6
8: Sicarius2_28
9: Wyborn_28
10: Nostromo_26
11: Abba_26
12: KBurrousTX_30
13: Lymara_30
14: RosiePosie_30 + 14
15: Linus_30
16: Colucci_29
17: DrYang_30
18: Rasputia_81
19: Bubbykins_29

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 347793 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347793 has 41 members, 1 are drafts.

Phages represented in each track:
• Track 1 : EastWest_28
• Track 2 : Jawnski_25
• Track 3 : Beans_25
• Track 4 : Franzy_25, Brent_25
• Track 5 : Piccoletto_25, NathanVaag_25
• Track 6 : King2_25
• Track 7 : JKerns_27, TaeYoung_27, Grekaycon_27, Sonny_27, Jordan_27, Zartrosa_27, Shade_27
• Track 8 : Sicarius2_28
• Track 9 : Wyborn_28
• Track 10 : Nostromo_26
• Track 11 : Abba_26
• Track 12 : KBurrousTX_30
• Track 13 : Lymara_30
• Track 14 : RosiePosie_30, EdgarPoe_30, Mordred_30, Tophat_30, HumptyDumpty_30, JaNo_30, Chocolat_30, MoyaNatalis_30, Kabreeze_30, Scavito_30, Conboy_30, PrincessTrina_30, Chipper1996_300, JayCookie_30, Chubster_30
• Track 15 : Linus_30
• Track 16 : Colucci_29
• Track 17 : DrYang_30
• Track 18 : Rasputia_81
• Track 19 : Bubbykins_29

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 26 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beans_25, Brent_25, Chipper1996_300, Chocolat_30, Chubster_30, Colucci_29, Conboy_30, DrYang_30, EdgarPoe_30, Franzy_25, HumptyDumpty_30, JaNo_30, Jawnski_25, JayCookie_30, KBurrousTX_30, Kabreeze_30, King2_25, Linus_30, Lymara_30, Mordred_30, MoyaNatalis_30, NathanVaag_25, Piccoletto_25,

PrincessTrina_30, RosiePosie_30, Scavito_30, Tophat_30,

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

Genes that do not have the "Most Annotated" start:
• Abba_26, Bubbykins_29, EastWest_28, Grekaycon_27, JKerns_27, Jordan_27, Nostromo_26, Rasputia_81, Shade_27, Sicarius2_28, Sonny_27, TaeYoung_27, Wyborn_28, Zartrosa_27,

Summary by start number:

Start 4:
• Found in 27 of 41 (65.9%) of genes in pham
• Manual Annotations of this start: 26 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beans_25 (AO1), Brent_25 (AO1), Chipper1996_300 (AR), Chocolat_30 (AR), Chubster_30 (AR), Colucci_29 (AR), Conboy_30 (AR), DrYang_30 (AR), EdgarPoe_30 (AR), Franzy_25 (AO1), HumptyDumpty_30 (AR), JaNo_30 (AR), Jawnski_25 (AO1), JayCookie_30 (AR), KBurrousTX_30 (AR), Kabreeze_30 (AR), King2_25 (AO1), Linus_30 (AR), Lymara_30 (AR), Mordred_30 (AR), MoyaNatalis_30 (AR), NathanVaag_25 (AO1), Piccoletto_25 (AO1), PrincessTrina_30 (AR), RosiePosie_30 (AR), Scavito_30 (AR), Tophat_30 (AR),

Start 6:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rasputia_81 (GC),

Start 13:
• Found in 7 of 41 (17.1%) of genes in pham
• Manual Annotations of this start: 7 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grekaycon_27 (AO2), JKerns_27 (AO2), Jordan_27 (AO2), Shade_27 (AO2), Sonny_27 (AO2), TaeYoung_27 (AO2), Zartrosa_27 (AO2),

Start 15:
• Found in 4 of 41 (9.8%) of genes in pham
• Manual Annotations of this start: 4 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_26 (AO3), Nostromo_26 (AO3), Sicarius2_28 (AO2), Wyborn_28 (AO2),

Start 16:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbykins_29 (UNK),

Start 17:

• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EastWest_28 (AO),

Summary by clusters:

There are 7 clusters represented in this pham: AO, AR, GC, AO2, AO1, AO3, UNK,

Info for manual annotations of cluster AO:
•Start number 17 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 4 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 13 was manually annotated 7 times for cluster AO2.
•Start number 15 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 15 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AR:
•Start number 4 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster GC:
•Start number 6 was manually annotated 1 time for cluster GC.

Info for manual annotations of cluster UNK:
•Start number 16 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Abba_26 Start: 23181, Stop: 23465, Start Num: 15
Candidate Starts for Abba_26:
(1, 22956), (2, 22974), (Start: 15 @23181 has 4 MA's), (24, 23205), (27, 23217), (38, 23292), (52, 23367), (55, 23388), (63, 23433),

Gene: Beans_25 Start: 22993, Stop: 23403, Start Num: 4
Candidate Starts for Beans_25:
(Start: 4 @22993 has 26 MA's), (8, 23026), (20, 23077), (21, 23080), (25, 23092), (26, 23098), (31, 23113), (34, 23131), (37, 23170), (46, 23209), (49, 23230), (54, 23269),

Gene: Brent_25 Start: 22975, Stop: 23376, Start Num: 4
Candidate Starts for Brent_25:
(Start: 4 @22975 has 26 MA's), (8, 23008), (22, 23065), (25, 23074), (34, 23113), (37, 23152), (54, 23251),

Gene: Bubbykins_29 Start: 23574, Stop: 23933, Start Num: 16
Candidate Starts for Bubbykins_29:

(Start: 16 @23574 has 1 MA's), (25, 23607), (28, 23619), (33, 23637), (35, 23664), (38, 23691), (39, 23697), (45, 23721), (48, 23736), (54, 23781), (56, 23787), (63, 23829),

Gene: Chipper1996_300 Start: 26146, Stop: 26550, Start Num: 4
Candidate Starts for Chipper1996_300:
(Start: 4 @26146 has 26 MA's), (7, 26176), (8, 26179), (32, 26269), (34, 26284), (38, 26329), (51, 26401), (59, 26440), (61, 26455),

Gene: Chocolat_30 Start: 26146, Stop: 26550, Start Num: 4
Candidate Starts for Chocolat_30:
(Start: 4 @26146 has 26 MA's), (7, 26176), (8, 26179), (32, 26269), (34, 26284), (38, 26329), (51, 26401), (59, 26440), (61, 26455),

Gene: Chubster_30 Start: 25917, Stop: 26321, Start Num: 4
Candidate Starts for Chubster_30:
(Start: 4 @25917 has 26 MA's), (7, 25947), (8, 25950), (32, 26040), (34, 26055), (38, 26100), (51, 26172), (59, 26211), (61, 26226),

Gene: Colucci_29 Start: 25615, Stop: 26019, Start Num: 4
Candidate Starts for Colucci_29:
(Start: 4 @25615 has 26 MA's), (5, 25639), (8, 25648), (20, 25699), (21, 25702), (26, 25720), (30, 25732), (34, 25753), (40, 25807), (61, 25924), (65, 25984),

Gene: Conboy_30 Start: 26145, Stop: 26549, Start Num: 4
Candidate Starts for Conboy_30:
(Start: 4 @26145 has 26 MA's), (7, 26175), (8, 26178), (32, 26268), (34, 26283), (38, 26328), (51, 26400), (59, 26439), (61, 26454),

Gene: DrYang_30 Start: 27237, Stop: 27644, Start Num: 4
Candidate Starts for DrYang_30:
(3, 27234), (Start: 4 @27237 has 26 MA's), (5, 27261), (7, 27267), (8, 27270), (10, 27276), (18, 27315), (20, 27321), (22, 27327), (24, 27333), (31, 27357), (34, 27375), (40, 27429), (47, 27459), (50, 27477), (59, 27531), (61, 27546),

Gene: EastWest_28 Start: 23262, Stop: 23588, Start Num: 17
Candidate Starts for EastWest_28:
(Start: 17 @23262 has 1 MA's), (30, 23307), (38, 23373), (58, 23478), (60, 23493), (61, 23499), (66, 23553),

Gene: EdgarPoe_30 Start: 26145, Stop: 26549, Start Num: 4
Candidate Starts for EdgarPoe_30:
(Start: 4 @26145 has 26 MA's), (7, 26175), (8, 26178), (32, 26268), (34, 26283), (38, 26328), (51, 26400), (59, 26439), (61, 26454),

Gene: Franzy_25 Start: 22974, Stop: 23375, Start Num: 4
Candidate Starts for Franzy_25:
(Start: 4 @22974 has 26 MA's), (8, 23007), (22, 23064), (25, 23073), (34, 23112), (37, 23151), (54, 23250),

Gene: Grekaycon_27 Start: 23301, Stop: 23657, Start Num: 13
Candidate Starts for Grekaycon_27:
(Start: 13 @23301 has 7 MA's), (29, 23370), (42, 23457), (44, 23463), (47, 23478), (54, 23532),

Gene: HumptyDumpty_30 Start: 26144, Stop: 26548, Start Num: 4
Candidate Starts for HumptyDumpty_30:
(Start: 4 @26144 has 26 MA's), (7, 26174), (8, 26177), (32, 26267), (34, 26282), (38, 26327), (51, 26399), (59, 26438), (61, 26453),

Gene: JKerns_27 Start: 23328, Stop: 23684, Start Num: 13
Candidate Starts for JKerns_27:
(Start: 13 @23328 has 7 MA's), (29, 23397), (42, 23484), (44, 23490), (47, 23505), (54, 23559),

Gene: JaNo_30 Start: 26144, Stop: 26548, Start Num: 4
Candidate Starts for JaNo_30:
(Start: 4 @26144 has 26 MA's), (7, 26174), (8, 26177), (32, 26267), (34, 26282), (38, 26327), (51, 26399), (59, 26438), (61, 26453),

Gene: Jawnski_25 Start: 22988, Stop: 23398, Start Num: 4
Candidate Starts for Jawnski_25:
(Start: 4 @22988 has 26 MA's), (8, 23021), (20, 23072), (21, 23075), (25, 23087), (31, 23108), (34, 23126), (37, 23165), (49, 23225), (54, 23264),

Gene: JayCookie_30 Start: 26147, Stop: 26551, Start Num: 4
Candidate Starts for JayCookie_30:
(Start: 4 @26147 has 26 MA's), (7, 26177), (8, 26180), (32, 26270), (34, 26285), (38, 26330), (51, 26402), (59, 26441), (61, 26456),

Gene: Jordan_27 Start: 23298, Stop: 23654, Start Num: 13
Candidate Starts for Jordan_27:
(Start: 13 @23298 has 7 MA's), (29, 23367), (42, 23454), (44, 23460), (47, 23475), (54, 23529),

Gene: KBurrousTX_30 Start: 27067, Stop: 27471, Start Num: 4
Candidate Starts for KBurrousTX_30:
(3, 27064), (Start: 4 @27067 has 26 MA's), (5, 27091), (7, 27097), (8, 27100), (9, 27103), (14, 27124), (18, 27145), (20, 27151), (22, 27157), (34, 27205), (50, 27307), (64, 27418),

Gene: Kabreeze_30 Start: 26144, Stop: 26548, Start Num: 4
Candidate Starts for Kabreeze_30:
(Start: 4 @26144 has 26 MA's), (7, 26174), (8, 26177), (32, 26267), (34, 26282), (38, 26327), (51, 26399), (59, 26438), (61, 26453),

Gene: King2_25 Start: 22993, Stop: 23403, Start Num: 4
Candidate Starts for King2_25:
(Start: 4 @22993 has 26 MA's), (8, 23026), (21, 23080), (25, 23092), (31, 23113), (34, 23131), (37, 23170), (54, 23269),

Gene: Linus_30 Start: 26144, Stop: 26548, Start Num: 4
Candidate Starts for Linus_30:
(Start: 4 @26144 has 26 MA's), (7, 26174), (8, 26177), (32, 26267), (34, 26282), (38, 26327), (51, 26399), (59, 26438),

Gene: Lymara_30 Start: 26142, Stop: 26546, Start Num: 4
Candidate Starts for Lymara_30:
(Start: 4 @26142 has 26 MA's), (7, 26172), (8, 26175), (21, 26229), (34, 26280), (38, 26325), (46, 26358), (51, 26397), (59, 26436), (61, 26451),

Gene: Mordred_30 Start: 26144, Stop: 26548, Start Num: 4
Candidate Starts for Mordred_30:
(Start: 4 @26144 has 26 MA's), (7, 26174), (8, 26177), (32, 26267), (34, 26282), (38, 26327), (51, 26399), (59, 26438), (61, 26453),

Gene: MoyaNatalis_30 Start: 26147, Stop: 26551, Start Num: 4
Candidate Starts for MoyaNatalis_30:
(Start: 4 @26147 has 26 MA's), (7, 26177), (8, 26180), (32, 26270), (34, 26285), (38, 26330), (51, 26402), (59, 26441), (61, 26456),

Gene: NathanVaag_25 Start: 22969, Stop: 23379, Start Num: 4
Candidate Starts for NathanVaag_25:
(Start: 4 @22969 has 26 MA's), (8, 23002), (20, 23053), (21, 23056), (31, 23089), (34, 23107), (37, 23146), (49, 23206), (54, 23245),

Gene: Nostromo_26 Start: 23032, Stop: 23316, Start Num: 15
Candidate Starts for Nostromo_26:
(1, 22807), (2, 22825), (Start: 15 @23032 has 4 MA's), (23, 23053), (27, 23068), (38, 23143), (44, 23167), (47, 23182), (52, 23218), (55, 23239), (58, 23248), (59, 23254), (60, 23263), (63, 23284),

Gene: Piccoletto_25 Start: 22968, Stop: 23378, Start Num: 4
Candidate Starts for Piccoletto_25:
(Start: 4 @22968 has 26 MA's), (8, 23001), (20, 23052), (21, 23055), (31, 23088), (34, 23106), (37, 23145), (49, 23205), (54, 23244),

Gene: PrincessTrina_30 Start: 26147, Stop: 26551, Start Num: 4
Candidate Starts for PrincessTrina_30:
(Start: 4 @26147 has 26 MA's), (7, 26177), (8, 26180), (32, 26270), (34, 26285), (38, 26330), (51, 26402), (59, 26441), (61, 26456),

Gene: Rasputia_81 Start: 53603, Stop: 54034, Start Num: 6
Candidate Starts for Rasputia_81:
(Start: 6 @53603 has 1 MA's), (11, 53621), (12, 53624), (18, 53651), (19, 53654), (25, 53672), (28, 53684), (36, 53741), (38, 53753), (39, 53759), (43, 53771), (48, 53795), (53, 53834), (54, 53840), (57, 53849), (62, 53885),

Gene: RosiePosie_30 Start: 26147, Stop: 26551, Start Num: 4
Candidate Starts for RosiePosie_30:
(Start: 4 @26147 has 26 MA's), (7, 26177), (8, 26180), (32, 26270), (34, 26285), (38, 26330), (51, 26402), (59, 26441), (61, 26456),

Gene: Scavito_30 Start: 26144, Stop: 26548, Start Num: 4
Candidate Starts for Scavito_30:
(Start: 4 @26144 has 26 MA's), (7, 26174), (8, 26177), (32, 26267), (34, 26282), (38, 26327), (51, 26399), (59, 26438), (61, 26453),

Gene: Shade_27 Start: 23277, Stop: 23633, Start Num: 13
Candidate Starts for Shade_27:
(Start: 13 @23277 has 7 MA's), (29, 23346), (42, 23433), (44, 23439), (47, 23454), (54, 23508),

Gene: Sicarius2_28 Start: 23710, Stop: 24018, Start Num: 15
Candidate Starts for Sicarius2_28:

(Start: 15 @23710 has 4 MA's), (24, 23734), (27, 23746), (38, 23821), (41, 23833), (45, 23851), (52, 23896), (58, 23926), (60, 23941), (63, 23962),

Gene: Sonny_27 Start: 23298, Stop: 23654, Start Num: 13
Candidate Starts for Sonny_27:
(Start: 13 @23298 has 7 MA's), (29, 23367), (42, 23454), (44, 23460), (47, 23475), (54, 23529),

Gene: TaeYoung_27 Start: 23302, Stop: 23658, Start Num: 13
Candidate Starts for TaeYoung_27:
(Start: 13 @23302 has 7 MA's), (29, 23371), (42, 23458), (44, 23464), (47, 23479), (54, 23533),

Gene: Tophat_30 Start: 26146, Stop: 26550, Start Num: 4
Candidate Starts for Tophat_30:
(Start: 4 @26146 has 26 MA's), (7, 26176), (8, 26179), (32, 26269), (34, 26284), (38, 26329), (51, 26401), (59, 26440), (61, 26455),

Gene: Wyborn_28 Start: 23685, Stop: 23987, Start Num: 15
Candidate Starts for Wyborn_28:
(Start: 15 @23685 has 4 MA's), (32, 23736), (38, 23796), (41, 23808), (52, 23871), (60, 23916), (63, 23937),

Gene: Zartrosa_27 Start: 23301, Stop: 23657, Start Num: 13
Candidate Starts for Zartrosa_27:
(Start: 13 @23301 has 7 MA's), (29, 23370), (42, 23457), (44, 23463), (47, 23478), (54, 23532),