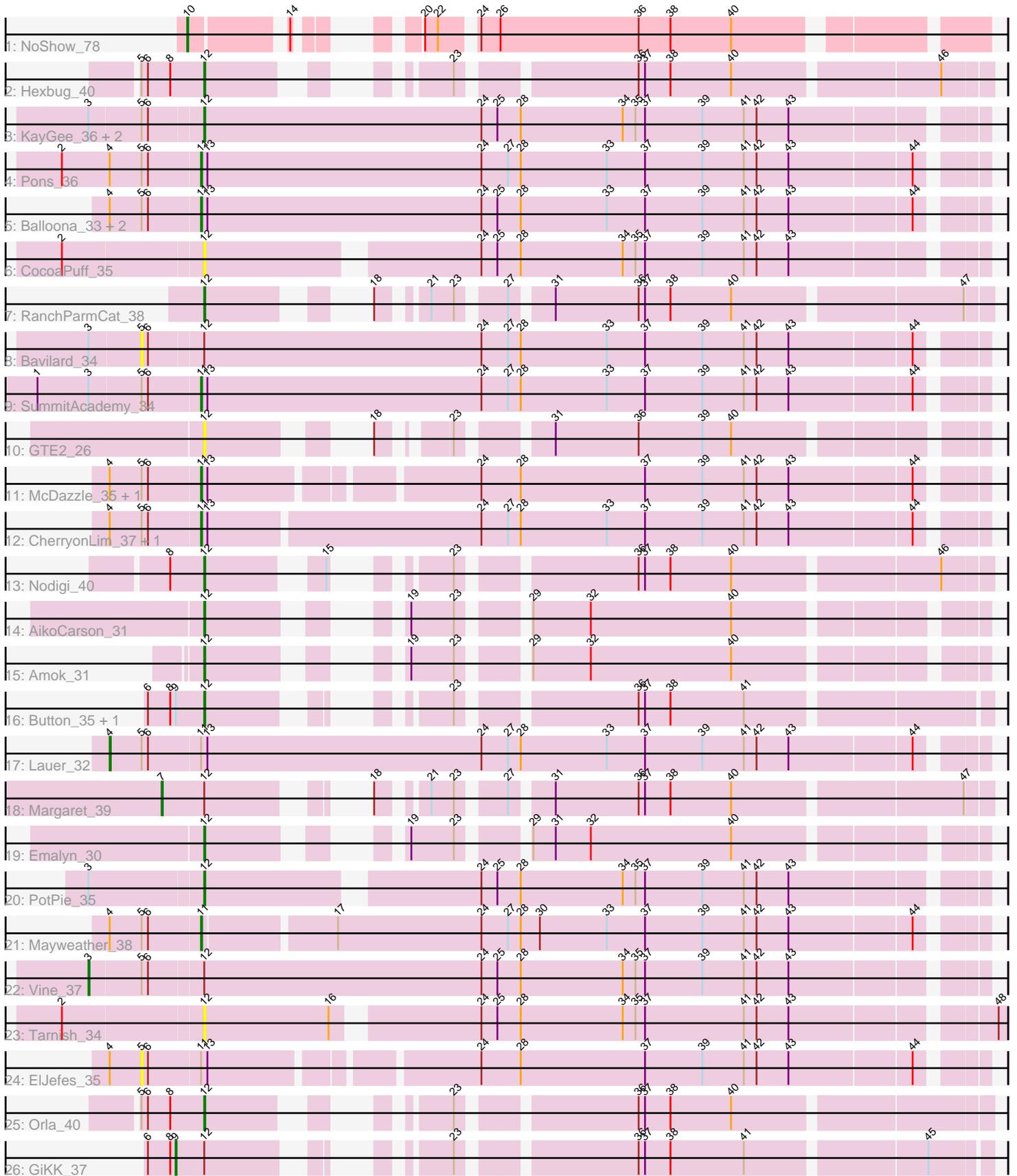


Pham 291378



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 291378 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291378 has 33 members, 7 are drafts.

Phages represented in each track:

- Track 1 : NoShow_78
- Track 2 : Hexbug_40
- Track 3 : KayGee_36, Elinal_38, Yucky_37
- Track 4 : Pons_36
- Track 5 : Balloona_33, BigChungus_34, Feastonyeet_34
- Track 6 : CocoaPuff_35
- Track 7 : RanchParmCat_38
- Track 8 : Bavidard_34
- Track 9 : SummitAcademy_34
- Track 10 : GTE2_26
- Track 11 : McDazzle_35, SheckWes_37
- Track 12 : CherryonLim_37, MAnor_36
- Track 13 : Nodigi_40
- Track 14 : AikoCarson_31
- Track 15 : Amok_31
- Track 16 : Button_35, Jamzy_37
- Track 17 : Lauer_32
- Track 18 : Margaret_39
- Track 19 : Emalyn_30
- Track 20 : PotPie_35
- Track 21 : Mayweather_38
- Track 22 : Vine_37
- Track 23 : Tarnish_34
- Track 24 : ElJefes_35
- Track 25 : Orla_40
- Track 26 : GiKK_37

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

Genes that call this "Most Annotated" start:

- AikoCarson_31, Amok_31, Button_35, CocoaPuff_35, Elinal_38, Emalyn_30, GTE2_26, Hexbug_40, Jamzy_37, KayGee_36, Nodigi_40, Orla_40, PotPie_35, RanchParmCat_38, Tarnish_34, Yucky_37,

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

- Bavidard_34, GiKK_37, Margaret_39, Vine_37,

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

- Balloona_33, BigChungus_34, CherryonLim_37, ElJefes_35, Feastonyeet_34, Lauer_32, MAnor_36, Mayweather_38, McDazzle_35, NoShow_78, Pons_36, SheckWes_37, SummitAcademy_34,

Summary by start number:

Start 3:

- Found in 7 of 33 (21.2%) 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: Vine_37 (CT),

Start 4:

- Found in 11 of 33 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Lauer_32 (CT),

Start 5:

- Found in 19 of 33 (57.6%) of genes in pham
- No Manual Annotations of this start.
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Bavidard_34 (CT), ElJefes_35 (CT),

Start 7:

- Found in 1 of 33 (3.0%) 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: Margaret_39 (CT),

Start 9:

- Found in 3 of 33 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GiKK_37 (CT),

Start 10:

- Found in 1 of 33 (3.0%) 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: NoShow_78 (AB),

Start 11:

- Found in 12 of 33 (36.4%) of genes in pham
- Manual Annotations of this start: 8 of 26

- Called 83.3% of time when present
- Phage (with cluster) where this start called: Balloona_33 (CT), BigChungus_34 (CT), CherryonLim_37 (CT), Feastonyeet_34 (CT), MAnor_36 (CT), Mayweather_38 (CT), McDazzle_35 (CT), Pons_36 (CT), SheckWes_37 (CT), SummitAcademy_34 (CT),

Start 12:

- Found in 20 of 33 (60.6%) of genes in pham
- Manual Annotations of this start: 13 of 26
- Called 80.0% of time when present
- Phage (with cluster) where this start called: AikoCarson_31 (CT), Amok_31 (CT), Button_35 (CT), CocoaPuff_35 (CT), Elinal_38 (CT), Emalyn_30 (CT), GTE2_26 (CT), Hexbug_40 (CT), Jamzy_37 (CT), KayGee_36 (CT), Nodigi_40 (CT), Orla_40 (CT), PotPie_35 (CT), RanchParmCat_38 (CT), Tarnish_34 (CT), Yucky_37 (CT),

Summary by clusters:

There are 2 clusters represented in this pham: AB, CT,

Info for manual annotations of cluster AB:

- Start number 10 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster CT:

- Start number 3 was manually annotated 1 time for cluster CT.
- Start number 4 was manually annotated 1 time for cluster CT.
- Start number 7 was manually annotated 1 time for cluster CT.
- Start number 9 was manually annotated 1 time for cluster CT.
- Start number 11 was manually annotated 8 times for cluster CT.
- Start number 12 was manually annotated 13 times for cluster CT.

Gene Information:

Gene: AikoCarson_31 Start: 24720, Stop: 24127, Start Num: 12

Candidate Starts for AikoCarson_31:

(Start: 12 @24720 has 13 MA's), (19, 24606), (23, 24567), (29, 24519), (32, 24465), (40, 24333),

Gene: Amok_31 Start: 24679, Stop: 24086, Start Num: 12

Candidate Starts for Amok_31:

(Start: 12 @24679 has 13 MA's), (19, 24565), (23, 24526), (29, 24478), (32, 24424), (40, 24292),

Gene: Balloona_33 Start: 26625, Stop: 25909, Start Num: 11

Candidate Starts for Balloona_33:

(Start: 4 @26709 has 1 MA's), (5, 26679), (6, 26673), (Start: 11 @26625 has 8 MA's), (13, 26619), (24, 26361), (25, 26346), (28, 26325), (33, 26244), (37, 26208), (39, 26154), (41, 26115), (42, 26103), (43, 26073), (44, 25962),

Gene: Bavilard_34 Start: 26888, Stop: 26121, Start Num: 5

Candidate Starts for Bavilard_34:

(Start: 3 @26936 has 1 MA's), (5, 26888), (6, 26882), (Start: 12 @26834 has 13 MA's), (24, 26573), (27, 26549), (28, 26537), (33, 26456), (37, 26420), (39, 26366), (41, 26327), (42, 26315), (43, 26285), (44, 26174),

Gene: BigChungus_34 Start: 27021, Stop: 26305, Start Num: 11

Candidate Starts for BigChungus_34:

(Start: 4 @27105 has 1 MA's), (5, 27075), (6, 27069), (Start: 11 @27021 has 8 MA's), (13, 27015), (24, 26757), (25, 26742), (28, 26721), (33, 26640), (37, 26604), (39, 26550), (41, 26511), (42, 26499), (43, 26469), (44, 26358),

Gene: Button_35 Start: 26057, Stop: 25458, Start Num: 12

Candidate Starts for Button_35:

(6, 26108), (8, 26087), (Start: 9 @26084 has 1 MA's), (Start: 12 @26057 has 13 MA's), (23, 25916), (36, 25769), (37, 25763), (38, 25739), (41, 25670),

Gene: CherryonLim_37 Start: 28152, Stop: 27445, Start Num: 11

Candidate Starts for CherryonLim_37:

(Start: 4 @28236 has 1 MA's), (5, 28206), (6, 28200), (Start: 11 @28152 has 8 MA's), (13, 28146), (24, 27897), (27, 27873), (28, 27861), (33, 27780), (37, 27744), (39, 27690), (41, 27651), (42, 27639), (43, 27609), (44, 27498),

Gene: CocoaPuff_35 Start: 27037, Stop: 26351, Start Num: 12

Candidate Starts for CocoaPuff_35:

(2, 27163), (Start: 12 @27037 has 13 MA's), (24, 26803), (25, 26788), (28, 26767), (34, 26671), (35, 26659), (37, 26650), (39, 26596), (41, 26557), (42, 26545), (43, 26515),

Gene: ElJefes_35 Start: 27402, Stop: 26662, Start Num: 5

Candidate Starts for ElJefes_35:

(Start: 4 @27432 has 1 MA's), (5, 27402), (6, 27396), (Start: 11 @27348 has 8 MA's), (13, 27342), (24, 27114), (28, 27078), (37, 26961), (39, 26907), (41, 26868), (42, 26856), (43, 26826), (44, 26715),

Gene: Elinal_38 Start: 27399, Stop: 26686, Start Num: 12

Candidate Starts for Elinal_38:

(Start: 3 @27501 has 1 MA's), (5, 27453), (6, 27447), (Start: 12 @27399 has 13 MA's), (24, 27138), (25, 27123), (28, 27102), (34, 27006), (35, 26994), (37, 26985), (39, 26931), (41, 26892), (42, 26880), (43, 26850),

Gene: Emalyn_30 Start: 23911, Stop: 23318, Start Num: 12

Candidate Starts for Emalyn_30:

(Start: 12 @23911 has 13 MA's), (19, 23797), (23, 23758), (29, 23710), (31, 23689), (32, 23656), (40, 23524),

Gene: Feastonyeet_34 Start: 27021, Stop: 26305, Start Num: 11

Candidate Starts for Feastonyeet_34:

(Start: 4 @27105 has 1 MA's), (5, 27075), (6, 27069), (Start: 11 @27021 has 8 MA's), (13, 27015), (24, 26757), (25, 26742), (28, 26721), (33, 26640), (37, 26604), (39, 26550), (41, 26511), (42, 26499), (43, 26469), (44, 26358),

Gene: GTE2_26 Start: 24090, Stop: 23512, Start Num: 12

Candidate Starts for GTE2_26:

(Start: 12 @24090 has 13 MA's), (18, 23997), (23, 23952), (31, 23883), (36, 23805), (39, 23745), (40, 23718),

Gene: GiKK_37 Start: 26414, Stop: 25788, Start Num: 9

Candidate Starts for GiKK_37:

(6, 26438), (8, 26417), (Start: 9 @26414 has 1 MA's), (Start: 12 @26387 has 13 MA's), (23, 26246), (36, 26099), (37, 26093), (38, 26069), (41, 26000), (45, 25841),

Gene: Hexbug_40 Start: 28044, Stop: 27442, Start Num: 12

Candidate Starts for Hexbug_40:

(5, 28101), (6, 28095), (8, 28074), (Start: 12 @28044 has 13 MA's), (23, 27903), (36, 27756), (37, 27750), (38, 27726), (40, 27669), (46, 27486),

Gene: Jamzy_37 Start: 26370, Stop: 25771, Start Num: 12

Candidate Starts for Jamzy_37:

(6, 26421), (8, 26400), (Start: 9 @26397 has 1 MA's), (Start: 12 @26370 has 13 MA's), (23, 26229), (36, 26082), (37, 26076), (38, 26052), (41, 25983),

Gene: KayGee_36 Start: 27399, Stop: 26686, Start Num: 12

Candidate Starts for KayGee_36:

(Start: 3 @27501 has 1 MA's), (5, 27453), (6, 27447), (Start: 12 @27399 has 13 MA's), (24, 27138), (25, 27123), (28, 27102), (34, 27006), (35, 26994), (37, 26985), (39, 26931), (41, 26892), (42, 26880), (43, 26850),

Gene: Lauer_32 Start: 28305, Stop: 27505, Start Num: 4

Candidate Starts for Lauer_32:

(Start: 4 @28305 has 1 MA's), (5, 28275), (6, 28269), (Start: 11 @28221 has 8 MA's), (13, 28215), (24, 27957), (27, 27933), (28, 27921), (33, 27840), (37, 27804), (39, 27750), (41, 27711), (42, 27699), (43, 27669), (44, 27558),

Gene: MAnor_36 Start: 27792, Stop: 27085, Start Num: 11

Candidate Starts for MAnor_36:

(Start: 4 @27876 has 1 MA's), (5, 27846), (6, 27840), (Start: 11 @27792 has 8 MA's), (13, 27786), (24, 27537), (27, 27513), (28, 27501), (33, 27420), (37, 27384), (39, 27330), (41, 27291), (42, 27279), (43, 27249), (44, 27138),

Gene: Margaret_39 Start: 27083, Stop: 26442, Start Num: 7

Candidate Starts for Margaret_39:

(Start: 7 @27083 has 1 MA's), (Start: 12 @27044 has 13 MA's), (18, 26957), (21, 26924), (23, 26903), (27, 26867), (31, 26834), (36, 26756), (37, 26750), (38, 26726), (40, 26669), (47, 26465),

Gene: Mayweather_38 Start: 28017, Stop: 27313, Start Num: 11

Candidate Starts for Mayweather_38:

(Start: 4 @28101 has 1 MA's), (5, 28071), (6, 28065), (Start: 11 @28017 has 8 MA's), (17, 27900), (24, 27765), (27, 27741), (28, 27729), (30, 27711), (33, 27648), (37, 27612), (39, 27558), (41, 27519), (42, 27507), (43, 27477), (44, 27366),

Gene: McDazzle_35 Start: 27342, Stop: 26656, Start Num: 11

Candidate Starts for McDazzle_35:

(Start: 4 @27426 has 1 MA's), (5, 27396), (6, 27390), (Start: 11 @27342 has 8 MA's), (13, 27336), (24, 27108), (28, 27072), (37, 26955), (39, 26901), (41, 26862), (42, 26850), (43, 26820), (44, 26709),

Gene: NoShow_78 Start: 51191, Stop: 51799, Start Num: 10

Candidate Starts for NoShow_78:

(Start: 10 @51191 has 1 MA's), (14, 51266), (20, 51320), (22, 51332), (24, 51359), (26, 51377), (36, 51506), (38, 51536), (40, 51593),

Gene: Nodigi_40 Start: 28027, Stop: 27425, Start Num: 12

Candidate Starts for Nodigi_40:

(8, 28057), (Start: 12 @28027 has 13 MA's), (15, 27943), (23, 27886), (36, 27739), (37, 27733), (38, 27709), (40, 27652), (46, 27469),

Gene: Orla_40 Start: 28015, Stop: 27413, Start Num: 12

Candidate Starts for Orla_40:

(5, 28072), (6, 28066), (8, 28045), (Start: 12 @28015 has 13 MA's), (23, 27874), (36, 27727), (37, 27721), (38, 27697), (40, 27640),

Gene: Pons_36 Start: 27367, Stop: 26651, Start Num: 11

Candidate Starts for Pons_36:

(2, 27496), (Start: 4 @27451 has 1 MA's), (5, 27421), (6, 27415), (Start: 11 @27367 has 8 MA's), (13, 27361), (24, 27103), (27, 27079), (28, 27067), (33, 26986), (37, 26950), (39, 26896), (41, 26857), (42, 26845), (43, 26815), (44, 26704),

Gene: PotPie_35 Start: 28313, Stop: 27627, Start Num: 12

Candidate Starts for PotPie_35:

(Start: 3 @28415 has 1 MA's), (Start: 12 @28313 has 13 MA's), (24, 28079), (25, 28064), (28, 28043), (34, 27947), (35, 27935), (37, 27926), (39, 27872), (41, 27833), (42, 27821), (43, 27791),

Gene: RanchParmCat_38 Start: 27186, Stop: 26581, Start Num: 12

Candidate Starts for RanchParmCat_38:

(Start: 12 @27186 has 13 MA's), (18, 27096), (21, 27063), (23, 27042), (27, 27006), (31, 26973), (36, 26895), (37, 26889), (38, 26865), (40, 26808), (47, 26604),

Gene: SheckWes_37 Start: 26888, Stop: 26202, Start Num: 11

Candidate Starts for SheckWes_37:

(Start: 4 @26972 has 1 MA's), (5, 26942), (6, 26936), (Start: 11 @26888 has 8 MA's), (13, 26882), (24, 26654), (28, 26618), (37, 26501), (39, 26447), (41, 26408), (42, 26396), (43, 26366), (44, 26255),

Gene: SummitAcademy_34 Start: 26942, Stop: 26226, Start Num: 11

Candidate Starts for SummitAcademy_34:

(1, 27092), (Start: 3 @27044 has 1 MA's), (5, 26996), (6, 26990), (Start: 11 @26942 has 8 MA's), (13, 26936), (24, 26678), (27, 26654), (28, 26642), (33, 26561), (37, 26525), (39, 26471), (41, 26432), (42, 26420), (43, 26390), (44, 26279),

Gene: Tarnish_34 Start: 27441, Stop: 26737, Start Num: 12

Candidate Starts for Tarnish_34:

(2, 27567), (Start: 12 @27441 has 13 MA's), (16, 27324), (24, 27204), (25, 27189), (28, 27168), (34, 27072), (35, 27060), (37, 27051), (41, 26958), (42, 26946), (43, 26916), (48, 26745),

Gene: Vine_37 Start: 27784, Stop: 26969, Start Num: 3

Candidate Starts for Vine_37:

(Start: 3 @27784 has 1 MA's), (5, 27736), (6, 27730), (Start: 12 @27682 has 13 MA's), (24, 27421), (25, 27406), (28, 27385), (34, 27289), (35, 27277), (37, 27268), (39, 27214), (41, 27175), (42, 27163), (43, 27133),

Gene: Yucky_37 Start: 27610, Stop: 26924, Start Num: 12

Candidate Starts for Yucky_37:

(Start: 3 @27712 has 1 MA's), (5, 27664), (6, 27658), (Start: 12 @27610 has 13 MA's), (24, 27376), (25, 27361), (28, 27340), (34, 27244), (35, 27232), (37, 27223), (39, 27169), (41, 27130), (42, 27118), (43, 27088),