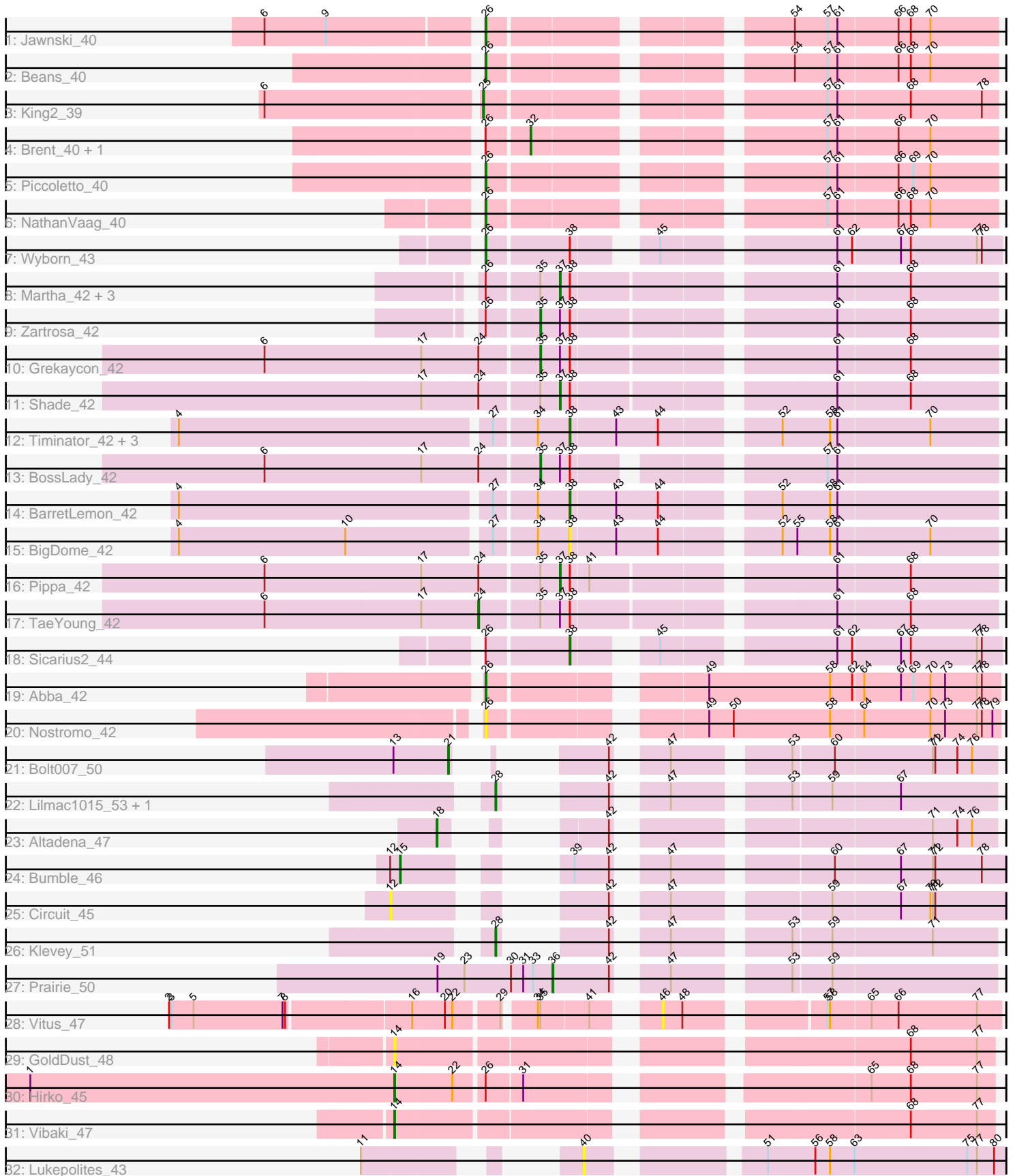


Pham 203103



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 203103 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203103 has 40 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Jawnski_40
- Track 2 : Beans_40
- Track 3 : King2_39
- Track 4 : Brent_40, Franzy_40
- Track 5 : Piccoletto_40
- Track 6 : NathanVaag_40
- Track 7 : Wyborn_43
- Track 8 : Martha_42, JKerns_42, Sonny_42, Jordan_42
- Track 9 : Zartrosa_42
- Track 10 : Grekaycon_42
- Track 11 : Shade_42
- Track 12 : Timinator_42, LeeroyJ_42, GravityBall_42, StevieBAY_42
- Track 13 : BossLady_42
- Track 14 : BarretLemon_42
- Track 15 : BigDome_42
- Track 16 : Pippa_42
- Track 17 : TaeYoung_42
- Track 18 : Sicarius2_44
- Track 19 : Abba_42
- Track 20 : Nostromo_42
- Track 21 : Bolt007_50
- Track 22 : Lilmac1015_53, CalWood4100_53
- Track 23 : Altadena_47
- Track 24 : Bumble_46
- Track 25 : Circuit_45
- Track 26 : Klevey_51
- Track 27 : Prairie_50
- Track 28 : Vitus_47
- Track 29 : GoldDust_48
- Track 30 : Hirko_45
- Track 31 : Vibaki_47
- Track 32 : Lukepolites_43

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

The start number called the most often in the published annotations is 37, it was called in 6 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- JKerns_42, Jordan_42, Martha_42, Pippa_42, Shade_42, Sonny_42,

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

- BossLady_42, Grekaycon_42, TaeYoung_42, Zartrosa_42,

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

- Abba_42, Altadena_47, BarretLemon_42, Beans_40, BigDome_42, Bolt007_50, Brent_40, Bumble_46, CalWood4100_53, Circuit_45, Franzy_40, GoldDust_48, GravityBall_42, Hirko_45, Jawnski_40, King2_39, Klevey_51, LeeroyJ_42, Lilmac1015_53, Lukepolites_43, NathanVaag_40, Nostromo_42, Piccoletto_40, Prairie_50, Sicarius2_44, StevieBAY_42, Timinator_42, Vibaki_47, Vitus_47, Wyborn_43,

Summary by start number:

Start 12:

- Found in 2 of 40 (5.0%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Circuit_45 (FH),

Start 14:

- Found in 3 of 40 (7.5%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoldDust_48 (FL), Hirko_45 (FL), Vibaki_47 (FL),

Start 15:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bumble_46 (FH),

Start 18:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena_47 (FH),

Start 21:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bolt007_50 (FH),

Start 24:

- Found in 5 of 40 (12.5%) of genes in pham

- Manual Annotations of this start: 1 of 33
- Called 20.0% of time when present
- Phage (with cluster) where this start called: TaeYoung_42 (AO2),

Start 25:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: King2_39 (AO1),

Start 26:

- Found in 16 of 40 (40.0%) of genes in pham
- Manual Annotations of this start: 6 of 33
- Called 43.8% of time when present
- Phage (with cluster) where this start called: Abba_42 (AO3), Beans_40 (AO1), Jawnski_40 (AO1), NathanVaag_40 (AO1), Nostromo_42 (AO3), Piccoletto_40 (AO1), Wyborn_43 (AO2),

Start 28:

- Found in 3 of 40 (7.5%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CalWood4100_53 (FH), Klevey_51 (FH), Lilmac1015_53 (FH),

Start 32:

- Found in 2 of 40 (5.0%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brent_40 (AO1), Franzy_40 (AO1),

Start 35:

- Found in 11 of 40 (27.5%) of genes in pham
- Manual Annotations of this start: 3 of 33
- Called 27.3% of time when present
- Phage (with cluster) where this start called: BossLady_42 (AO2), Grekaycon_42 (AO2), Zartrosa_42 (AO2),

Start 36:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Prairie_50 (FH),

Start 37:

- Found in 10 of 40 (25.0%) of genes in pham
- Manual Annotations of this start: 6 of 33
- Called 60.0% of time when present
- Phage (with cluster) where this start called: JKerns_42 (AO2), Jordan_42 (AO2), Martha_42 (AO2), Pippa_42 (AO2), Shade_42 (AO2), Sonny_42 (AO2),

Start 38:

- Found in 18 of 40 (45.0%) of genes in pham

- Manual Annotations of this start: 6 of 33
- Called 38.9% of time when present
- Phage (with cluster) where this start called: BarretLemon_42 (AO2), BigDome_42 (AO2), GravityBall_42 (AO2), LeeroyJ_42 (AO2), Sicarius2_44 (AO2), StevieBAY_42 (AO2), Timinator_42 (AO2),

Start 40:

- Found in 1 of 40 (2.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lukepolites_43 (singleton),

Start 46:

- Found in 1 of 40 (2.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vitus_47 (FL),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, AO3, AO2, AO1, FH, FL,

Info for manual annotations of cluster AO1:

- Start number 25 was manually annotated 1 time for cluster AO1.
- Start number 26 was manually annotated 4 times for cluster AO1.
- Start number 32 was manually annotated 2 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 24 was manually annotated 1 time for cluster AO2.
- Start number 26 was manually annotated 1 time for cluster AO2.
- Start number 35 was manually annotated 3 times for cluster AO2.
- Start number 37 was manually annotated 6 times for cluster AO2.
- Start number 38 was manually annotated 6 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 26 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster FH:

- Start number 15 was manually annotated 1 time for cluster FH.
- Start number 18 was manually annotated 1 time for cluster FH.
- Start number 21 was manually annotated 1 time for cluster FH.
- Start number 28 was manually annotated 2 times for cluster FH.
- Start number 36 was manually annotated 1 time for cluster FH.

Info for manual annotations of cluster FL:

- Start number 14 was manually annotated 2 times for cluster FL.

Gene Information:

Gene: Abba_42 Start: 32269, Stop: 32844, Start Num: 26

Candidate Starts for Abba_42:

(Start: 26 @32269 has 6 MA's), (49, 32494), (58, 32641), (62, 32668), (64, 32680), (67, 32725), (69, 32740), (70, 32761), (73, 32779), (77, 32818), (78, 32824),

Gene: Altadena_47 Start: 32540, Stop: 33031, Start Num: 18

Candidate Starts for Altadena_47:

(Start: 18 @32540 has 1 MA's), (42, 32627), (71, 32954), (74, 32984), (76, 33002),

Gene: BarretLemon_42 Start: 34040, Stop: 34525, Start Num: 38

Candidate Starts for BarretLemon_42:

(4, 33587), (27, 33953), (34, 34001), (Start: 38 @34040 has 6 MA's), (43, 34094), (44, 34145), (52, 34268), (58, 34325), (61, 34334),

Gene: Beans_40 Start: 33728, Stop: 34282, Start Num: 26

Candidate Starts for Beans_40:

(Start: 26 @33728 has 6 MA's), (54, 34040), (57, 34079), (61, 34091), (66, 34163), (68, 34178), (70, 34202),

Gene: BigDome_42 Start: 34064, Stop: 34549, Start Num: 38

Candidate Starts for BigDome_42:

(4, 33611), (10, 33815), (27, 33977), (34, 34025), (Start: 38 @34064 has 6 MA's), (43, 34118), (44, 34169), (52, 34292), (55, 34310), (58, 34349), (61, 34358), (70, 34469),

Gene: Bolt007_50 Start: 35519, Stop: 35992, Start Num: 21

Candidate Starts for Bolt007_50:

(13, 35456), (Start: 21 @35519 has 1 MA's), (42, 35588), (47, 35630), (53, 35750), (60, 35798), (71, 35915), (72, 35918), (74, 35945), (76, 35963),

Gene: BossLady_42 Start: 34026, Stop: 34520, Start Num: 35

Candidate Starts for BossLady_42:

(6, 33699), (17, 33888), (Start: 24 @33957 has 1 MA's), (Start: 35 @34026 has 3 MA's), (Start: 37 @34050 has 6 MA's), (Start: 38 @34062 has 6 MA's), (57, 34317), (61, 34329),

Gene: Brent_40 Start: 33738, Stop: 34244, Start Num: 32

Candidate Starts for Brent_40:

(Start: 26 @33690 has 6 MA's), (Start: 32 @33738 has 2 MA's), (57, 34041), (61, 34053), (66, 34125), (70, 34164),

Gene: Bumble_46 Start: 32813, Stop: 33379, Start Num: 15

Candidate Starts for Bumble_46:

(12, 32801), (Start: 15 @32813 has 1 MA's), (39, 32921), (42, 32963), (47, 33005), (60, 33173), (67, 33251), (71, 33290), (72, 33293), (78, 33350),

Gene: CalWood4100_53 Start: 35216, Stop: 35686, Start Num: 28

Candidate Starts for CalWood4100_53:

(Start: 28 @35216 has 2 MA's), (42, 35282), (47, 35324), (53, 35444), (59, 35489), (67, 35570),

Gene: Circuit_45 Start: 33675, Stop: 34253, Start Num: 12

Candidate Starts for Circuit_45:

(12, 33675), (42, 33837), (47, 33879), (59, 34044), (67, 34125), (70, 34161), (71, 34164), (72, 34167),

Gene: Franzy_40 Start: 33754, Stop: 34260, Start Num: 32

Candidate Starts for Franzy_40:

(Start: 26 @33706 has 6 MA's), (Start: 32 @33754 has 2 MA's), (57, 34057), (61, 34069), (66, 34141), (70, 34180),

Gene: GoldDust_48 Start: 36160, Stop: 36810, Start Num: 14

Candidate Starts for GoldDust_48:

(Start: 14 @36160 has 2 MA's), (68, 36709), (77, 36790),

Gene: GravityBall_42 Start: 34070, Stop: 34555, Start Num: 38

Candidate Starts for GravityBall_42:

(4, 33617), (27, 33983), (34, 34031), (Start: 38 @34070 has 6 MA's), (43, 34124), (44, 34175), (52, 34298), (58, 34355), (61, 34364), (70, 34475),

Gene: Grekaycon_42 Start: 33972, Stop: 34487, Start Num: 35

Candidate Starts for Grekaycon_42:

(6, 33645), (17, 33834), (Start: 24 @33903 has 1 MA's), (Start: 35 @33972 has 3 MA's), (Start: 37 @33996 has 6 MA's), (Start: 38 @34008 has 6 MA's), (61, 34296), (68, 34383),

Gene: Hirko_45 Start: 35166, Stop: 35819, Start Num: 14

Candidate Starts for Hirko_45:

(1, 34722), (Start: 14 @35166 has 2 MA's), (22, 35235), (Start: 26 @35268 has 6 MA's), (31, 35310), (65, 35670), (68, 35718), (77, 35799),

Gene: JKerns_42 Start: 34045, Stop: 34536, Start Num: 37

Candidate Starts for JKerns_42:

(Start: 26 @33961 has 6 MA's), (Start: 35 @34021 has 3 MA's), (Start: 37 @34045 has 6 MA's), (Start: 38 @34057 has 6 MA's), (61, 34345), (68, 34432),

Gene: Jawnski_40 Start: 33678, Stop: 34232, Start Num: 26

Candidate Starts for Jawnski_40:

(6, 33435), (9, 33510), (Start: 26 @33678 has 6 MA's), (54, 33990), (57, 34029), (61, 34041), (66, 34113), (68, 34128), (70, 34152),

Gene: Jordan_42 Start: 34082, Stop: 34573, Start Num: 37

Candidate Starts for Jordan_42:

(Start: 26 @33998 has 6 MA's), (Start: 35 @34058 has 3 MA's), (Start: 37 @34082 has 6 MA's), (Start: 38 @34094 has 6 MA's), (61, 34382), (68, 34469),

Gene: King2_39 Start: 33684, Stop: 34241, Start Num: 25

Candidate Starts for King2_39:

(6, 33432), (Start: 25 @33684 has 1 MA's), (57, 34038), (61, 34050), (68, 34137), (78, 34224),

Gene: Klevey_51 Start: 34652, Stop: 35122, Start Num: 28

Candidate Starts for Klevey_51:

(Start: 28 @34652 has 2 MA's), (42, 34718), (47, 34760), (53, 34880), (59, 34925), (71, 35045),

Gene: LeeroyJ_42 Start: 34009, Stop: 34494, Start Num: 38

Candidate Starts for LeeroyJ_42:

(4, 33556), (27, 33922), (34, 33970), (Start: 38 @34009 has 6 MA's), (43, 34063), (44, 34114), (52, 34237), (58, 34294), (61, 34303), (70, 34414),

Gene: Lilmac1015_53 Start: 35216, Stop: 35686, Start Num: 28

Candidate Starts for Lilmac1015_53:

(Start: 28 @35216 has 2 MA's), (42, 35282), (47, 35324), (53, 35444), (59, 35489), (67, 35570),

Gene: Lukepolites_43 Start: 33328, Stop: 33786, Start Num: 40

Candidate Starts for Lukepolites_43:

(11, 33172), (40, 33328), (51, 33499), (56, 33556), (58, 33574), (63, 33604), (75, 33742), (77, 33754), (80, 33775),

Gene: Martha_42 Start: 33973, Stop: 34464, Start Num: 37

Candidate Starts for Martha_42:

(Start: 26 @33889 has 6 MA's), (Start: 35 @33949 has 3 MA's), (Start: 37 @33973 has 6 MA's), (Start: 38 @33985 has 6 MA's), (61, 34273), (68, 34360),

Gene: NathanVaag_40 Start: 33677, Stop: 34231, Start Num: 26

Candidate Starts for NathanVaag_40:

(Start: 26 @33677 has 6 MA's), (57, 34028), (61, 34040), (66, 34112), (68, 34127), (70, 34151),

Gene: Nostromo_42 Start: 32524, Stop: 33099, Start Num: 26

Candidate Starts for Nostromo_42:

(Start: 26 @32524 has 6 MA's), (49, 32749), (50, 32779), (58, 32896), (64, 32935), (70, 33016), (73, 33034), (77, 33073), (78, 33079), (79, 33091),

Gene: Piccoletto_40 Start: 33702, Stop: 34256, Start Num: 26

Candidate Starts for Piccoletto_40:

(Start: 26 @33702 has 6 MA's), (57, 34053), (61, 34065), (66, 34137), (69, 34155), (70, 34176),

Gene: Pippa_42 Start: 34152, Stop: 34643, Start Num: 37

Candidate Starts for Pippa_42:

(6, 33801), (17, 33990), (Start: 24 @34059 has 1 MA's), (Start: 35 @34128 has 3 MA's), (Start: 37 @34152 has 6 MA's), (Start: 38 @34164 has 6 MA's), (41, 34185), (61, 34452), (68, 34539),

Gene: Prairie_50 Start: 34461, Stop: 34934, Start Num: 36

Candidate Starts for Prairie_50:

(19, 34320), (23, 34353), (30, 34410), (31, 34425), (33, 34437), (Start: 36 @34461 has 1 MA's), (42, 34530), (47, 34572), (53, 34692), (59, 34737),

Gene: Shade_42 Start: 34080, Stop: 34571, Start Num: 37

Candidate Starts for Shade_42:

(17, 33918), (Start: 24 @33987 has 1 MA's), (Start: 35 @34056 has 3 MA's), (Start: 37 @34080 has 6 MA's), (Start: 38 @34092 has 6 MA's), (61, 34380), (68, 34467),

Gene: Sicarius2_44 Start: 33727, Stop: 34182, Start Num: 38

Candidate Starts for Sicarius2_44:

(Start: 26 @33631 has 6 MA's), (Start: 38 @33727 has 6 MA's), (45, 33799), (61, 33985), (62, 34003), (67, 34060), (68, 34072), (77, 34153), (78, 34159),

Gene: Sonny_42 Start: 34091, Stop: 34582, Start Num: 37

Candidate Starts for Sonny_42:

(Start: 26 @34007 has 6 MA's), (Start: 35 @34067 has 3 MA's), (Start: 37 @34091 has 6 MA's), (Start: 38 @34103 has 6 MA's), (61, 34391), (68, 34478),

Gene: StevieBAY_42 Start: 34070, Stop: 34555, Start Num: 38

Candidate Starts for StevieBAY_42:

(4, 33617), (27, 33983), (34, 34031), (Start: 38 @34070 has 6 MA's), (43, 34124), (44, 34175), (52, 34298), (58, 34355), (61, 34364), (70, 34475),

Gene: TaeYoung_42 Start: 33904, Stop: 34488, Start Num: 24

Candidate Starts for TaeYoung_42:

(6, 33646), (17, 33835), (Start: 24 @33904 has 1 MA's), (Start: 35 @33973 has 3 MA's), (Start: 37 @33997 has 6 MA's), (Start: 38 @34009 has 6 MA's), (61, 34297), (68, 34384),

Gene: Timinator_42 Start: 34009, Stop: 34494, Start Num: 38

Candidate Starts for Timinator_42:

(4, 33556), (27, 33922), (34, 33970), (Start: 38 @34009 has 6 MA's), (43, 34063), (44, 34114), (52, 34237), (58, 34294), (61, 34303), (70, 34414),

Gene: Vibaki_47 Start: 35785, Stop: 36435, Start Num: 14

Candidate Starts for Vibaki_47:

(Start: 14 @35785 has 2 MA's), (68, 36334), (77, 36415),

Gene: Vitus_47 Start: 35385, Stop: 35762, Start Num: 46

Candidate Starts for Vitus_47:

(2, 34857), (3, 34860), (5, 34887), (7, 34995), (8, 34998), (16, 35142), (20, 35178), (22, 35187), (29, 35238), (34, 35271), (Start: 35 @35274 has 3 MA's), (41, 35331), (46, 35385), (48, 35409), (57, 35553), (58, 35556), (65, 35604), (66, 35637), (77, 35733),

Gene: Wyborn_43 Start: 34183, Stop: 34734, Start Num: 26

Candidate Starts for Wyborn_43:

(Start: 26 @34183 has 6 MA's), (Start: 38 @34279 has 6 MA's), (45, 34351), (61, 34537), (62, 34555), (67, 34612), (68, 34624), (77, 34705), (78, 34711),

Gene: Zartrosa_42 Start: 33974, Stop: 34489, Start Num: 35

Candidate Starts for Zartrosa_42:

(Start: 26 @33914 has 6 MA's), (Start: 35 @33974 has 3 MA's), (Start: 37 @33998 has 6 MA's), (Start: 38 @34010 has 6 MA's), (61, 34298), (68, 34385),