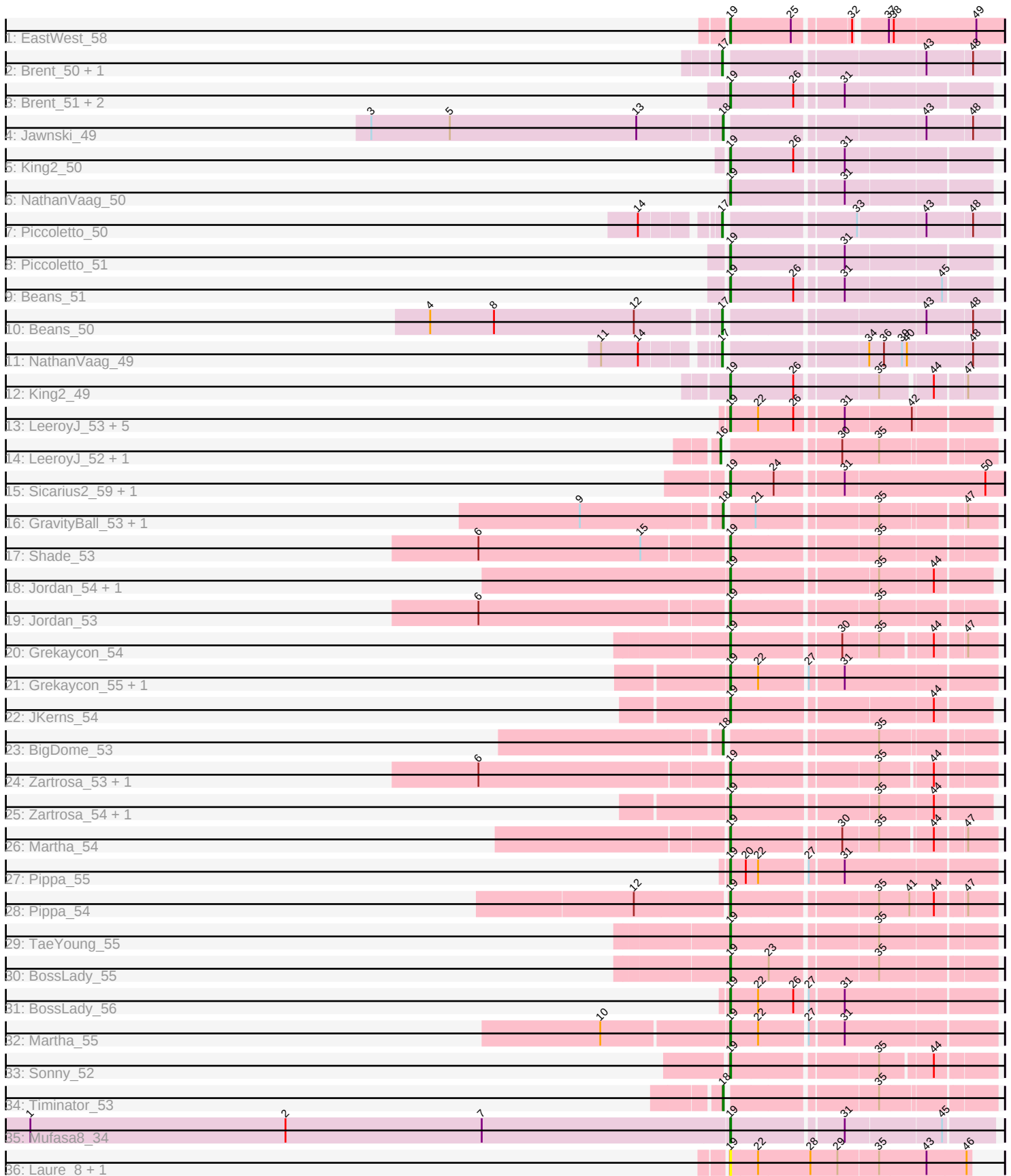


Pham 330936



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 330936 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330936 has 52 members, 2 are drafts.

Phages represented in each track:

- Track 1 : EastWest_58
- Track 2 : Brent_50, Franzy_50
- Track 3 : Brent_51, Jawnski_50, Franzy_51
- Track 4 : Jawnski_49
- Track 5 : King2_50
- Track 6 : NathanVaag_50
- Track 7 : Piccoletto_50
- Track 8 : Piccoletto_51
- Track 9 : Beans_51
- Track 10 : Beans_50
- Track 11 : NathanVaag_49
- Track 12 : King2_49
- Track 13 : LeeroyJ_53, GravityBall_54, StevieBAY_54, BigDome_54, Timinator_54, BarretLemon_53
- Track 14 : LeeroyJ_52, BarretLemon_52
- Track 15 : Sicarius2_59, Wyborn_59
- Track 16 : GravityBall_53, StevieBAY_53
- Track 17 : Shade_53
- Track 18 : Jordan_54, Shade_54
- Track 19 : Jordan_53
- Track 20 : Grekaycon_54
- Track 21 : Grekaycon_55, TaeYoung_56
- Track 22 : JKerns_54
- Track 23 : BigDome_53
- Track 24 : Zartrosa_53, JKerns_53
- Track 25 : Zartrosa_54, Sonny_53
- Track 26 : Martha_54
- Track 27 : Pippa_55
- Track 28 : Pippa_54
- Track 29 : TaeYoung_55
- Track 30 : BossLady_55
- Track 31 : BossLady_56
- Track 32 : Martha_55
- Track 33 : Sonny_52
- Track 34 : Timinator_53
- Track 35 : Mufasa8_34
- Track 36 : Laure_8, Laure_326

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

The start number called the most often in the published annotations is 19, it was called in 38 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon_53, Beans_51, BigDome_54, BossLady_55, BossLady_56, Brent_51, EastWest_58, Franzy_51, GravityBall_54, Grekaycon_54, Grekaycon_55, JKerns_53, JKerns_54, Jawnski_50, Jordan_53, Jordan_54, King2_49, King2_50, Laure_326, Laure_8, LeeroyJ_53, Martha_54, Martha_55, Mufasa8_34, NathanVaag_50, Piccoletto_51, Pippa_54, Pippa_55, Shade_53, Shade_54, Sicarius2_59, Sonny_52, Sonny_53, StevieBAY_54, TaeYoung_55, TaeYoung_56, Timinator_54, Wyborn_59, Zartrosa_53, Zartrosa_54,

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

-

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

- BarretLemon_52, Beans_50, BigDome_53, Brent_50, Franzy_50, GravityBall_53, Jawnski_49, LeeroyJ_52, NathanVaag_49, Piccoletto_50, StevieBAY_53, Timinator_53,

Summary by start number:

Start 16:

- Found in 2 of 52 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarretLemon_52 (AO2), LeeroyJ_52 (AO2),

Start 17:

- Found in 5 of 52 (9.6%) of genes in pham
- Manual Annotations of this start: 5 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beans_50 (AO1), Brent_50 (AO1), Franzy_50 (AO1), NathanVaag_49 (AO1), Piccoletto_50 (AO1),

Start 18:

- Found in 5 of 52 (9.6%) of genes in pham
- Manual Annotations of this start: 5 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigDome_53 (AO2), GravityBall_53 (AO2), Jawnski_49 (AO1), StevieBAY_53 (AO2), Timinator_53 (AO2),

Start 19:

- Found in 40 of 52 (76.9%) of genes in pham
- Manual Annotations of this start: 38 of 50
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BarretLemon_53 (AO2), Beans_51 (AO1), BigDome_54 (AO2), BossLady_55 (AO2), BossLady_56 (AO2), Brent_51 (AO1), EastWest_58 (AO), Franzy_51 (AO1), GravityBall_54 (AO2), Grekaycon_54 (AO2), Grekaycon_55 (AO2), JKerns_53 (AO2), JKerns_54 (AO2), Jawnski_50 (AO1), Jordan_53 (AO2), Jordan_54 (AO2), King2_49 (AO1), King2_50 (AO1), Laure_326 (UNK), Laure_8 (UNK), LeeroyJ_53 (AO2), Martha_54 (AO2), Martha_55 (AO2), Mufasa8_34 (FG), NathanVaag_50 (AO1), Piccoletto_51 (AO1), Pippa_54 (AO2), Pippa_55 (AO2), Shade_53 (AO2), Shade_54 (AO2), Sicarius2_59 (AO2), Sonny_52 (AO2), Sonny_53 (AO2), StevieBAY_54 (AO2), TaeYoung_55 (AO2), TaeYoung_56 (AO2), Timinator_54 (AO2), Wyborn_59 (AO2), Zartrosa_53 (AO2), Zartrosa_54 (AO2),

Summary by clusters:

There are 5 clusters represented in this pham: AO, UNK, AO2, AO1, FG,

Info for manual annotations of cluster AO:

- Start number 19 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 17 was manually annotated 5 times for cluster AO1.
- Start number 18 was manually annotated 1 time for cluster AO1.
- Start number 19 was manually annotated 8 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 16 was manually annotated 2 times for cluster AO2.
- Start number 18 was manually annotated 4 times for cluster AO2.
- Start number 19 was manually annotated 28 times for cluster AO2.

Info for manual annotations of cluster FG:

- Start number 19 was manually annotated 1 time for cluster FG.

Gene Information:

Gene: BarretLemon_52 Start: 37854, Stop: 38150, Start Num: 16

Candidate Starts for BarretLemon_52:

(Start: 16 @37854 has 2 MA's), (30, 37977), (35, 38022),

Gene: BarretLemon_53 Start: 38160, Stop: 38453, Start Num: 19

Candidate Starts for BarretLemon_53:

(Start: 19 @38160 has 38 MA's), (22, 38193), (26, 38235), (31, 38286), (42, 38364),

Gene: Beans_51 Start: 38051, Stop: 38344, Start Num: 19

Candidate Starts for Beans_51:

(Start: 19 @38051 has 38 MA's), (26, 38126), (31, 38177), (45, 38288),

Gene: Beans_50 Start: 37744, Stop: 38049, Start Num: 17

Candidate Starts for Beans_50:

(4, 37399), (8, 37477), (12, 37648), (Start: 17 @37744 has 5 MA's), (43, 37963), (48, 38017),

Gene: BigDome_54 Start: 38543, Stop: 38836, Start Num: 19
Candidate Starts for BigDome_54:
(Start: 19 @38543 has 38 MA's), (22, 38576), (26, 38618), (31, 38669), (42, 38747),

Gene: BigDome_53 Start: 38237, Stop: 38533, Start Num: 18
Candidate Starts for BigDome_53:
(Start: 18 @38237 has 5 MA's), (35, 38405),

Gene: BossLady_55 Start: 38508, Stop: 38804, Start Num: 19
Candidate Starts for BossLady_55:
(Start: 19 @38508 has 38 MA's), (23, 38553), (35, 38673),

Gene: BossLady_56 Start: 38814, Stop: 39116, Start Num: 19
Candidate Starts for BossLady_56:
(Start: 19 @38814 has 38 MA's), (22, 38847), (26, 38889), (27, 38901), (31, 38940),

Gene: Brent_50 Start: 38026, Stop: 38331, Start Num: 17
Candidate Starts for Brent_50:
(Start: 17 @38026 has 5 MA's), (43, 38245), (48, 38299),

Gene: Brent_51 Start: 38336, Stop: 38629, Start Num: 19
Candidate Starts for Brent_51:
(Start: 19 @38336 has 38 MA's), (26, 38411), (31, 38462),

Gene: EastWest_58 Start: 38271, Stop: 38570, Start Num: 19
Candidate Starts for EastWest_58:
(Start: 19 @38271 has 38 MA's), (25, 38343), (32, 38403), (37, 38436), (38, 38442), (49, 38538),

Gene: Franzy_50 Start: 38042, Stop: 38347, Start Num: 17
Candidate Starts for Franzy_50:
(Start: 17 @38042 has 5 MA's), (43, 38261), (48, 38315),

Gene: Franzy_51 Start: 38352, Stop: 38645, Start Num: 19
Candidate Starts for Franzy_51:
(Start: 19 @38352 has 38 MA's), (26, 38427), (31, 38478),

Gene: GravityBall_54 Start: 38611, Stop: 38904, Start Num: 19
Candidate Starts for GravityBall_54:
(Start: 19 @38611 has 38 MA's), (22, 38644), (26, 38686), (31, 38737), (42, 38815),

Gene: GravityBall_53 Start: 38308, Stop: 38601, Start Num: 18
Candidate Starts for GravityBall_53:
(9, 38149), (Start: 18 @38308 has 5 MA's), (21, 38338), (35, 38473), (47, 38566),

Gene: Grekaycon_54 Start: 38407, Stop: 38697, Start Num: 19
Candidate Starts for Grekaycon_54:
(Start: 19 @38407 has 38 MA's), (30, 38530), (35, 38572), (44, 38629), (47, 38662),

Gene: Grekaycon_55 Start: 38694, Stop: 38996, Start Num: 19
Candidate Starts for Grekaycon_55:
(Start: 19 @38694 has 38 MA's), (22, 38727), (27, 38781), (31, 38820),

Gene: JKerns_54 Start: 38768, Stop: 39061, Start Num: 19

Candidate Starts for JKerns_54:

(Start: 19 @38768 has 38 MA's), (44, 38996),

Gene: JKerns_53 Start: 38481, Stop: 38771, Start Num: 19

Candidate Starts for JKerns_53:

(6, 38190), (Start: 19 @38481 has 38 MA's), (35, 38646), (44, 38703),

Gene: Jawnski_49 Start: 37551, Stop: 37856, Start Num: 18

Candidate Starts for Jawnski_49:

(3, 37128), (5, 37224), (13, 37452), (Start: 18 @37551 has 5 MA's), (43, 37770), (48, 37824),

Gene: Jawnski_50 Start: 37861, Stop: 38154, Start Num: 19

Candidate Starts for Jawnski_50:

(Start: 19 @37861 has 38 MA's), (26, 37936), (31, 37987),

Gene: Jordan_54 Start: 38577, Stop: 38870, Start Num: 19

Candidate Starts for Jordan_54:

(Start: 19 @38577 has 38 MA's), (35, 38742), (44, 38805),

Gene: Jordan_53 Start: 38284, Stop: 38580, Start Num: 19

Candidate Starts for Jordan_53:

(6, 37993), (Start: 19 @38284 has 38 MA's), (35, 38449),

Gene: King2_50 Start: 38240, Stop: 38533, Start Num: 19

Candidate Starts for King2_50:

(Start: 19 @38240 has 38 MA's), (26, 38315), (31, 38366),

Gene: King2_49 Start: 37956, Stop: 38243, Start Num: 19

Candidate Starts for King2_49:

(Start: 19 @37956 has 38 MA's), (26, 38031), (35, 38121), (44, 38175), (47, 38208),

Gene: Laure_8 Start: 4385, Stop: 4672, Start Num: 19

Candidate Starts for Laure_8:

(Start: 19 @4385 has 38 MA's), (22, 4418), (28, 4481), (29, 4514), (35, 4562), (43, 4619), (46, 4667),

Gene: Laure_326 Start: 172733, Stop: 173020, Start Num: 19

Candidate Starts for Laure_326:

(Start: 19 @172733 has 38 MA's), (22, 172766), (28, 172829), (29, 172862), (35, 172910), (43, 172967), (46, 173015),

Gene: LeeroyJ_53 Start: 38189, Stop: 38482, Start Num: 19

Candidate Starts for LeeroyJ_53:

(Start: 19 @38189 has 38 MA's), (22, 38222), (26, 38264), (31, 38315), (42, 38393),

Gene: LeeroyJ_52 Start: 37883, Stop: 38179, Start Num: 16

Candidate Starts for LeeroyJ_52:

(Start: 16 @37883 has 2 MA's), (30, 38006), (35, 38051),

Gene: Martha_54 Start: 38509, Stop: 38799, Start Num: 19

Candidate Starts for Martha_54:

(Start: 19 @38509 has 38 MA's), (30, 38632), (35, 38674), (44, 38731), (47, 38764),

Gene: Martha_55 Start: 38796, Stop: 39098, Start Num: 19

Candidate Starts for Martha_55:

(10, 38646), (Start: 19 @38796 has 38 MA's), (22, 38829), (27, 38883), (31, 38922),

Gene: Mufasa8_34 Start: 28999, Stop: 28703, Start Num: 19

Candidate Starts for Mufasa8_34:

(1, 29851), (2, 29539), (7, 29299), (Start: 19 @28999 has 38 MA's), (31, 28873), (45, 28762),

Gene: NathanVaag_50 Start: 37875, Stop: 38168, Start Num: 19

Candidate Starts for NathanVaag_50:

(Start: 19 @37875 has 38 MA's), (31, 38001),

Gene: NathanVaag_49 Start: 37569, Stop: 37871, Start Num: 17

Candidate Starts for NathanVaag_49:

(11, 37446), (14, 37491), (Start: 17 @37569 has 5 MA's), (34, 37722), (36, 37740), (39, 37761), (40, 37767), (48, 37842),

Gene: Piccoletto_50 Start: 37761, Stop: 38066, Start Num: 17

Candidate Starts for Piccoletto_50:

(14, 37683), (Start: 17 @37761 has 5 MA's), (33, 37902), (43, 37980), (48, 38034),

Gene: Piccoletto_51 Start: 38068, Stop: 38361, Start Num: 19

Candidate Starts for Piccoletto_51:

(Start: 19 @38068 has 38 MA's), (31, 38194),

Gene: Pippa_55 Start: 38701, Stop: 39003, Start Num: 19

Candidate Starts for Pippa_55:

(Start: 19 @38701 has 38 MA's), (20, 38719), (22, 38734), (27, 38788), (31, 38827),

Gene: Pippa_54 Start: 38395, Stop: 38691, Start Num: 19

Candidate Starts for Pippa_54:

(12, 38287), (Start: 19 @38395 has 38 MA's), (35, 38560), (41, 38596), (44, 38623), (47, 38656),

Gene: Shade_53 Start: 38209, Stop: 38505, Start Num: 19

Candidate Starts for Shade_53:

(6, 37918), (15, 38116), (Start: 19 @38209 has 38 MA's), (35, 38374),

Gene: Shade_54 Start: 38502, Stop: 38795, Start Num: 19

Candidate Starts for Shade_54:

(Start: 19 @38502 has 38 MA's), (35, 38667), (44, 38730),

Gene: Sicarius2_59 Start: 39034, Stop: 39351, Start Num: 19

Candidate Starts for Sicarius2_59:

(Start: 19 @39034 has 38 MA's), (24, 39085), (31, 39160), (50, 39328),

Gene: Sonny_52 Start: 37959, Stop: 38249, Start Num: 19

Candidate Starts for Sonny_52:

(Start: 19 @37959 has 38 MA's), (35, 38124), (44, 38181),

Gene: Sonny_53 Start: 38246, Stop: 38539, Start Num: 19

Candidate Starts for Sonny_53:

(Start: 19 @38246 has 38 MA's), (35, 38411), (44, 38474),

Gene: StevieBAY_53 Start: 38305, Stop: 38598, Start Num: 18

Candidate Starts for StevieBAY_53:

(9, 38146), (Start: 18 @38305 has 5 MA's), (21, 38335), (35, 38470), (47, 38563),

Gene: StevieBAY_54 Start: 38608, Stop: 38901, Start Num: 19

Candidate Starts for StevieBAY_54:

(Start: 19 @38608 has 38 MA's), (22, 38641), (26, 38683), (31, 38734), (42, 38812),

Gene: TaeYoung_55 Start: 38476, Stop: 38772, Start Num: 19

Candidate Starts for TaeYoung_55:

(Start: 19 @38476 has 38 MA's), (35, 38641),

Gene: TaeYoung_56 Start: 38769, Stop: 39071, Start Num: 19

Candidate Starts for TaeYoung_56:

(Start: 19 @38769 has 38 MA's), (22, 38802), (27, 38856), (31, 38895),

Gene: Timinator_54 Start: 38477, Stop: 38770, Start Num: 19

Candidate Starts for Timinator_54:

(Start: 19 @38477 has 38 MA's), (22, 38510), (26, 38552), (31, 38603), (42, 38681),

Gene: Timinator_53 Start: 38174, Stop: 38467, Start Num: 18

Candidate Starts for Timinator_53:

(Start: 18 @38174 has 5 MA's), (35, 38339),

Gene: Wyborn_59 Start: 40044, Stop: 40361, Start Num: 19

Candidate Starts for Wyborn_59:

(Start: 19 @40044 has 38 MA's), (24, 40095), (31, 40170), (50, 40338),

Gene: Zartrosa_53 Start: 38260, Stop: 38550, Start Num: 19

Candidate Starts for Zartrosa_53:

(6, 37969), (Start: 19 @38260 has 38 MA's), (35, 38425), (44, 38482),

Gene: Zartrosa_54 Start: 38547, Stop: 38840, Start Num: 19

Candidate Starts for Zartrosa_54:

(Start: 19 @38547 has 38 MA's), (35, 38712), (44, 38775),