

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 308711 Report

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

Pham number 308711 has 56 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Seahorse_18
- Track 2 : RadFad_17, AdaS_17, MaterMagnus_17, CookieBear_17, MUWow_16, Hillester_17, Lasker_18, Raphaella_17, Sakai_17, JellyBread_17, MidnightRain_17, BlueShadow_17, YoungHarleezy_17
- Track 3 : Anekin_16, DarwinJr_20, Crescenzo_17
- Track 4 : Globfish_16
- Track 5 : Windest_18
- Track 6 : Hestia_16
- Track 7 : Bhageatrice_19
- Track 8 : Mapleville_17, BillyTP_17, Lawnathon_17
- Track 9 : BenchScraper_17, Richie_17
- Track 10 : EvePickles_17
- Track 11 : ThayneTheZag_17
- Track 12 : LeBruni_18
- Track 13 : Faja_17
- Track 14 : Isolde_18
- Track 15 : SpicyFrank_17
- Track 16 : Tiff81_18
- Track 17 : Sashimi_18
- Track 18 : Auxilium_17
- Track 19 : Persistence_16
- Track 20 : Phrank15_16
- Track 21 : NikkiHotWheels_17
- Track 22 : KayMoney_16, ChuckDuck_16
- Track 23 : PeggyLeg03_16, Constance_16, NidoQ_17
- Track 24 : Peas_15, Eileen_16
- Track 25 : Karkharias_16
- Track 26 : GlobiWarming_16
- Track 27 : Henrique_17, Bridgette_16
- Track 28 : Judy_17
- Track 29 : Kukla_15
- Track 30 : DreamEater_15
- Track 31 : TripleJ_16
- Track 32 : Pitbull_15
- Track 33 : Hum25_15
- Track 34 : LuckyBarnes_22

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

The start number called the most often in the published annotations is 10, it was called in 45 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS_17, Anekin_16, Auxilium_17, BenchScraper_17, Bhageatrice_19, BillyTP_17, BlueShadow_17, Bridgette_16, ChuckDuck_16, Constance_16, CookieBear_17, Crescenzo_17, DarwinJr_20, Eileen_16, Globfish_16, GlobiWarming_16, Henrique_17, Hillester_17, Isolde_18, JellyBread_17, Judy_17, Karkharias_16, KayMoney_16, Lasker_18, Lawnathon_17, LeBruni_18, MUWow_16, Mapleville_17, MaterMagnus_17, MidnightRain_17, NidoQ_17, NikkiHotWheels_17, Peas_15, PeggyLeg03_16, Persistence_16, Phrank15_16, RadFad_17, Raphaella_17, Richie_17, Sakai_17, SpicyFrank_17, ThayneTheZag_17, Tiff81_18, Windest_18, YoungHarleezy_17,

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

-

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

- DreamEater_15, EvePickles_17, Faja_17, Hestia_16, Hum25_15, Kukla_15, LuckyBarnes_22, Pitbull_15, Sashimi_18, Seahorse_18, TripleJ_16,

Summary by start number:

Start 5:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EvePickles_17 (AY),

Start 6:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TripleJ_16 (FJ),

Start 7:

- Found in 6 of 56 (10.7%) of genes in pham
- Manual Annotations of this start: 6 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DreamEater_15 (FJ), Faja_17 (AY), Hum25_15 (FQ1), Kukla_15 (FJ), Pitbull_15 (FQ1), Sashimi_18 (AY),

Start 8:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LuckyBarnes_22 (singleton),

Start 9:

- Found in 2 of 56 (3.6%) of genes in pham
- Manual Annotations of this start: 2 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hestia_16 (AY), Seahorse_18 (AY),

Start 10:

- Found in 45 of 56 (80.4%) of genes in pham
- Manual Annotations of this start: 45 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdaS_17 (AY), Anekin_16 (AY), Auxilium_17 (AY), BenchScraper_17 (AY), Bhageatrice_19 (AY), BillyTP_17 (AY), BlueShadow_17 (AY), Bridgette_16 (FA), ChuckDuck_16 (FA), Constance_16 (FA), CookieBear_17 (AY), Crescenzo_17 (AY), DarwinJr_20 (AY), Eileen_16 (FA), Globfish_16 (AY), GlobiWarming_16 (FA), Henrique_17 (FA), Hillester_17 (AY), Isolde_18 (AY), JellyBread_17 (AY), Judy_17 (FA), Karkharias_16 (FA), KayMoney_16 (FA), Lasker_18 (AY), Lawnathon_17 (AY), LeBruni_18 (AY), MUWow_16 (AY), Mapleville_17 (AY), MaterMagnus_17 (AY), MidnightRain_17 (AY), NidoQ_17 (FA), NikkiHotWheels_17 (FA), Peas_15 (FA), PeggyLeg03_16 (FA), Persistence_16 (AY), Phrank15_16 (AY), RadFad_17 (AY), Raphaella_17 (AY), Richie_17 (AY), Sakai_17 (AY), SpicyFrank_17 (AY), ThayneTheZag_17 (AY), Tiff81_18 (AY), Windest_18 (AY), YoungHarleezy_17 (AY),

Summary by clusters:

There are 5 clusters represented in this pham: AY, FA, singleton, FQ1, FJ,

Info for manual annotations of cluster AY:

- Start number 5 was manually annotated 1 time for cluster AY.
- Start number 7 was manually annotated 2 times for cluster AY.
- Start number 9 was manually annotated 2 times for cluster AY.
- Start number 10 was manually annotated 32 times for cluster AY.

Info for manual annotations of cluster FA:

- Start number 10 was manually annotated 13 times for cluster FA.

Info for manual annotations of cluster FJ:

- Start number 6 was manually annotated 1 time for cluster FJ.
- Start number 7 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FQ1:

- Start number 7 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: AdaS_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for AdaS_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (73, 10302), (81, 10365),

Gene: Anekin_16 Start: 9771, Stop: 10651, Start Num: 10

Candidate Starts for Anekin_16:

(Start: 10 @9771 has 45 MA's), (11, 9777), (12, 9783), (22, 9933), (24, 9954), (25, 9969), (28, 9990), (32, 10050), (36, 10086), (41, 10113), (49, 10188), (55, 10233), (61, 10323), (64, 10347), (69, 10392), (102, 10632),

Gene: Auxilium_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for Auxilium_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (67, 10260), (73, 10302), (81, 10365),

Gene: BenchScraper_17 Start: 9666, Stop: 10549, Start Num: 10

Candidate Starts for BenchScraper_17:

(Start: 10 @9666 has 45 MA's), (11, 9672), (12, 9678), (13, 9699), (19, 9780), (24, 9849), (25, 9864), (30, 9903), (34, 9969), (36, 9981), (42, 10014), (49, 10083), (55, 10128), (73, 10317), (81, 10380), (103, 10530),

Gene: Bhageatrice_19 Start: 10868, Stop: 11754, Start Num: 10

Candidate Starts for Bhageatrice_19:

(Start: 10 @10868 has 45 MA's), (11, 10874), (12, 10880), (13, 10901), (24, 11051), (25, 11066), (28, 11087), (36, 11183), (37, 11186), (38, 11189), (42, 11216), (49, 11285), (51, 11312), (55, 11330), (64, 11444), (66, 11474), (68, 11480), (83, 11597), (93, 11675), (94, 11678), (96, 11681), (103, 11735),

Gene: BillyTP_17 Start: 9654, Stop: 10546, Start Num: 10

Candidate Starts for BillyTP_17:

(Start: 10 @9654 has 45 MA's), (11, 9660), (12, 9666), (24, 9837), (25, 9852), (28, 9873), (36, 9969), (49, 10071), (51, 10098), (55, 10116), (73, 10305), (74, 10311), (81, 10368),

Gene: BlueShadow_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for BlueShadow_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (73, 10302), (81, 10365),

Gene: Bridgette_16 Start: 9817, Stop: 10709, Start Num: 10

Candidate Starts for Bridgette_16:

(Start: 10 @9817 has 45 MA's), (11, 9823), (12, 9829), (24, 10000), (25, 10015), (36, 10132), (49, 10234), (55, 10279), (81, 10531),

Gene: ChuckDuck_16 Start: 9772, Stop: 10664, Start Num: 10

Candidate Starts for ChuckDuck_16:

(4, 9703), (Start: 10 @9772 has 45 MA's), (11, 9778), (12, 9784), (20, 9901), (24, 9955), (25, 9970), (28, 9991), (36, 10087), (49, 10189), (55, 10234), (73, 10423), (74, 10429), (81, 10486),

Gene: Constance_16 Start: 9820, Stop: 10712, Start Num: 10

Candidate Starts for Constance_16:

(Start: 10 @9820 has 45 MA's), (11, 9826), (12, 9832), (24, 10003), (25, 10018), (36, 10135), (49, 10237), (55, 10282), (81, 10534), (84, 10549),

Gene: CookieBear_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for CookieBear_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (73, 10302), (81, 10365),

Gene: Crescenzo_17 Start: 9699, Stop: 10579, Start Num: 10

Candidate Starts for Crescenzo_17:

(Start: 10 @9699 has 45 MA's), (11, 9705), (12, 9711), (22, 9861), (24, 9882), (25, 9897), (28, 9918), (32, 9978), (36, 10014), (41, 10041), (49, 10116), (55, 10161), (61, 10251), (64, 10275), (69, 10320), (102, 10560),

Gene: DarwinJr_20 Start: 11003, Stop: 11883, Start Num: 10

Candidate Starts for DarwinJr_20:

(Start: 10 @11003 has 45 MA's), (11, 11009), (12, 11015), (22, 11165), (24, 11186), (25, 11201), (28, 11222), (32, 11282), (36, 11318), (41, 11345), (49, 11420), (55, 11465), (61, 11555), (64, 11579), (69, 11624), (102, 11864),

Gene: DreamEater_15 Start: 9857, Stop: 10827, Start Num: 7

Candidate Starts for DreamEater_15:

(Start: 7 @9857 has 6 MA's), (25, 10097), (26, 10100), (27, 10109), (29, 10127), (39, 10232), (45, 10277), (48, 10301), (50, 10316), (56, 10358), (63, 10460), (79, 10577), (80, 10598), (89, 10655),

Gene: Eileen_16 Start: 9781, Stop: 10673, Start Num: 10

Candidate Starts for Eileen_16:

(Start: 10 @9781 has 45 MA's), (11, 9787), (12, 9793), (24, 9964), (25, 9979), (36, 10096), (49, 10198), (55, 10243), (77, 10456), (81, 10495), (84, 10510),

Gene: EvePickles_17 Start: 9791, Stop: 10767, Start Num: 5

Candidate Starts for EvePickles_17:

(Start: 5 @9791 has 1 MA's), (23, 10016), (26, 10040), (48, 10241), (50, 10256), (56, 10298), (63, 10400), (76, 10505), (79, 10517), (80, 10538), (85, 10571), (104, 10703),

Gene: Faja_17 Start: 9736, Stop: 10709, Start Num: 7

Candidate Starts for Faja_17:

(Start: 7 @9736 has 6 MA's), (18, 9883), (25, 9979), (26, 9982), (27, 9991), (48, 10183), (56, 10240), (59, 10297), (63, 10342), (65, 10375), (79, 10459), (85, 10513), (86, 10519), (89, 10537), (97, 10585),

Gene: Globfish_16 Start: 9725, Stop: 10608, Start Num: 10

Candidate Starts for Globfish_16:

(2, 9650), (Start: 10 @9725 has 45 MA's), (11, 9731), (12, 9737), (13, 9758), (19, 9839), (24, 9908), (25, 9923), (30, 9962), (34, 10028), (36, 10040), (42, 10073), (49, 10142), (55, 10187), (61, 10277), (73, 10376),

Gene: GlobiWarming_16 Start: 9774, Stop: 10666, Start Num: 10

Candidate Starts for GlobiWarming_16:

(Start: 10 @9774 has 45 MA's), (11, 9780), (12, 9786), (24, 9957), (25, 9972), (36, 10089), (49, 10191), (55, 10236), (73, 10425), (77, 10449), (81, 10488),

Gene: Henrique_17 Start: 9778, Stop: 10670, Start Num: 10

Candidate Starts for Henrique_17:

(Start: 10 @9778 has 45 MA's), (11, 9784), (12, 9790), (24, 9961), (25, 9976), (36, 10093), (49, 10195), (55, 10240), (81, 10492),

Gene: Hestia_16 Start: 9769, Stop: 10655, Start Num: 9

Candidate Starts for Hestia_16:

(3, 9697), (Start: 9 @9769 has 2 MA's), (11, 9775), (12, 9781), (13, 9802), (14, 9805), (24, 9952), (25, 9967), (36, 10084), (42, 10117), (47, 10174), (49, 10186), (55, 10231), (61, 10321), (69, 10393), (73, 10423), (96, 10582), (102, 10633),

Gene: Hillester_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for Hillester_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (73, 10302), (81, 10365),

Gene: Hum25_15 Start: 8518, Stop: 9374, Start Num: 7

Candidate Starts for Hum25_15:

(Start: 7 @8518 has 6 MA's), (16, 8614), (17, 8653), (20, 8689), (27, 8770), (33, 8839), (46, 8938), (47, 8944), (52, 8983), (55, 8998), (62, 9088), (67, 9142), (70, 9157), (71, 9163), (76, 9202), (78, 9211), (79, 9217), (80, 9235), (82, 9250), (91, 9316),

Gene: Isolde_18 Start: 9725, Stop: 10614, Start Num: 10

Candidate Starts for Isolde_18:

(Start: 10 @9725 has 45 MA's), (11, 9731), (12, 9737), (13, 9758), (24, 9908), (25, 9923), (30, 9962), (34, 10028), (36, 10040), (42, 10073), (49, 10142), (55, 10187), (73, 10376), (75, 10394), (84, 10454), (87, 10475), (89, 10493), (101, 10568), (102, 10586),

Gene: JellyBread_17 Start: 9644, Stop: 10527, Start Num: 10

Candidate Starts for JellyBread_17:

(Start: 10 @9644 has 45 MA's), (11, 9650), (12, 9656), (13, 9677), (19, 9758), (24, 9827), (25, 9842), (30, 9881), (34, 9947), (36, 9959), (42, 9992), (49, 10061), (55, 10106), (73, 10295), (81, 10358),

Gene: Judy_17 Start: 10091, Stop: 10983, Start Num: 10

Candidate Starts for Judy_17:

(Start: 10 @10091 has 45 MA's), (11, 10097), (12, 10103), (24, 10274), (25, 10289), (36, 10406), (44, 10463), (49, 10508), (55, 10553), (81, 10805), (84, 10820),

Gene: Karkharias_16 Start: 9778, Stop: 10670, Start Num: 10

Candidate Starts for Karkharias_16:

(Start: 10 @9778 has 45 MA's), (11, 9784), (12, 9790), (24, 9961), (25, 9976), (36, 10093), (49, 10195), (55, 10240), (77, 10453), (81, 10492),

Gene: KayMoney_16 Start: 9774, Stop: 10666, Start Num: 10

Candidate Starts for KayMoney_16:

(4, 9705), (Start: 10 @9774 has 45 MA's), (11, 9780), (12, 9786), (20, 9903), (24, 9957), (25, 9972), (28, 9993), (36, 10089), (49, 10191), (55, 10236), (73, 10425), (74, 10431), (81, 10488),

Gene: Kukla_15 Start: 9254, Stop: 10227, Start Num: 7

Candidate Starts for Kukla_15:

(Start: 7 @9254 has 6 MA's), (25, 9497), (26, 9500), (27, 9509), (48, 9701), (50, 9716), (56, 9758), (63, 9860), (85, 10031), (92, 10079),

Gene: Lasker_18 Start: 9659, Stop: 10542, Start Num: 10

Candidate Starts for Lasker_18:

(Start: 10 @9659 has 45 MA's), (11, 9665), (12, 9671), (13, 9692), (19, 9773), (24, 9842), (25, 9857), (30, 9896), (34, 9962), (36, 9974), (42, 10007), (49, 10076), (55, 10121), (73, 10310), (81, 10373),

Gene: Lawnathon_17 Start: 9799, Stop: 10691, Start Num: 10

Candidate Starts for Lawnathon_17:

(Start: 10 @9799 has 45 MA's), (11, 9805), (12, 9811), (24, 9982), (25, 9997), (28, 10018), (36, 10114), (49, 10216), (51, 10243), (55, 10261), (73, 10450), (74, 10456), (81, 10513),

Gene: LeBruni_18 Start: 9673, Stop: 10565, Start Num: 10

Candidate Starts for LeBruni_18:

(Start: 10 @9673 has 45 MA's), (11, 9679), (12, 9685), (24, 9856), (25, 9871), (36, 9988), (49, 10090), (51, 10117), (55, 10135), (73, 10324), (81, 10387), (87, 10423),

Gene: LuckyBarnes_22 Start: 12564, Stop: 13543, Start Num: 8

Candidate Starts for LuckyBarnes_22:

(Start: 8 @12564 has 1 MA's), (15, 12636), (40, 12936), (43, 12966), (46, 12999), (50, 13026), (58, 13119), (60, 13128), (72, 13245), (80, 13311), (88, 13362), (89, 13368), (100, 13428), (105, 13476), (106, 13503), (107, 13512),

Gene: MUWow_16 Start: 9744, Stop: 10627, Start Num: 10

Candidate Starts for MUWow_16:

(Start: 10 @9744 has 45 MA's), (11, 9750), (12, 9756), (13, 9777), (19, 9858), (24, 9927), (25, 9942), (30, 9981), (34, 10047), (36, 10059), (42, 10092), (49, 10161), (55, 10206), (73, 10395), (81, 10458),

Gene: Mapleville_17 Start: 9869, Stop: 10761, Start Num: 10

Candidate Starts for Mapleville_17:

(Start: 10 @9869 has 45 MA's), (11, 9875), (12, 9881), (24, 10052), (25, 10067), (28, 10088), (36, 10184), (49, 10286), (51, 10313), (55, 10331), (73, 10520), (74, 10526), (81, 10583),

Gene: MaterMagnus_17 Start: 9652, Stop: 10535, Start Num: 10

Candidate Starts for MaterMagnus_17:

(Start: 10 @9652 has 45 MA's), (11, 9658), (12, 9664), (13, 9685), (19, 9766), (24, 9835), (25, 9850), (30, 9889), (34, 9955), (36, 9967), (42, 10000), (49, 10069), (55, 10114), (73, 10303), (81, 10366),

Gene: MidnightRain_17 Start: 9650, Stop: 10533, Start Num: 10

Candidate Starts for MidnightRain_17:

(Start: 10 @9650 has 45 MA's), (11, 9656), (12, 9662), (13, 9683), (19, 9764), (24, 9833), (25, 9848), (30, 9887), (34, 9953), (36, 9965), (42, 9998), (49, 10067), (55, 10112), (73, 10301), (81, 10364),

Gene: NidoQ_17 Start: 9837, Stop: 10729, Start Num: 10

Candidate Starts for NidoQ_17:

(Start: 10 @9837 has 45 MA's), (11, 9843), (12, 9849), (24, 10020), (25, 10035), (36, 10152), (49, 10254), (55, 10299), (81, 10551), (84, 10566),

Gene: NikkiHotWheels_17 Start: 9777, Stop: 10669, Start Num: 10

Candidate Starts for NikkiHotWheels_17:

(Start: 10 @9777 has 45 MA's), (11, 9783), (12, 9789), (24, 9960), (25, 9975), (36, 10092), (49, 10194), (55, 10239), (73, 10428), (77, 10452), (81, 10491), (83, 10503),

Gene: Peas_15 Start: 9781, Stop: 10673, Start Num: 10

Candidate Starts for Peas_15:

(Start: 10 @9781 has 45 MA's), (11, 9787), (12, 9793), (24, 9964), (25, 9979), (36, 10096), (49, 10198), (55, 10243), (77, 10456), (81, 10495), (84, 10510),

Gene: PeggyLeg03_16 Start: 9820, Stop: 10712, Start Num: 10

Candidate Starts for PeggyLeg03_16:

(Start: 10 @9820 has 45 MA's), (11, 9826), (12, 9832), (24, 10003), (25, 10018), (36, 10135), (49, 10237), (55, 10282), (81, 10534), (84, 10549),

Gene: Persistence_16 Start: 9723, Stop: 10606, Start Num: 10

Candidate Starts for Persistence_16:

(Start: 10 @9723 has 45 MA's), (11, 9729), (12, 9735), (22, 9885), (24, 9906), (25, 9921), (28, 9942), (36, 10038), (41, 10065), (49, 10140), (55, 10185), (61, 10275), (64, 10299), (98, 10551), (102, 10587),

Gene: Phrank15_16 Start: 9804, Stop: 10696, Start Num: 10

Candidate Starts for Phrank15_16:

(Start: 10 @9804 has 45 MA's), (11, 9810), (12, 9816), (24, 9987), (25, 10002), (35, 10116), (36, 10119), (49, 10221), (55, 10266), (61, 10356), (81, 10518), (84, 10533), (87, 10554),

Gene: Pitbull_15 Start: 8148, Stop: 9004, Start Num: 7

Candidate Starts for Pitbull_15:

(Start: 7 @8148 has 6 MA's), (16, 8244), (17, 8283), (20, 8319), (27, 8400), (46, 8568), (47, 8574), (52, 8613), (55, 8628), (62, 8718), (67, 8772), (70, 8787), (71, 8793), (76, 8832), (78, 8841), (79, 8847), (80, 8865), (82, 8880), (91, 8946),

Gene: RadFad_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for RadFad_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (73, 10302), (81, 10365),

Gene: Raphaella_17 Start: 9651, Stop: 10534, Start Num: 10

Candidate Starts for Raphaella_17:

(Start: 10 @9651 has 45 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (73, 10302), (81, 10365),

Gene: Richie_17 Start: 9666, Stop: 10549, Start Num: 10

Candidate Starts for Richie_17:

(Start: 10 @9666 has 45 MA's), (11, 9672), (12, 9678), (13, 9699), (19, 9780), (24, 9849), (25, 9864), (30, 9903), (34, 9969), (36, 9981), (42, 10014), (49, 10083), (55, 10128), (73, 10317), (81, 10380), (103, 10530),

Gene: Sakai_17 Start: 9660, Stop: 10543, Start Num: 10

Candidate Starts for Sakai_17:

(Start: 10 @9660 has 45 MA's), (11, 9666), (12, 9672), (13, 9693), (19, 9774), (24, 9843), (25, 9858), (30, 9897), (34, 9963), (36, 9975), (42, 10008), (49, 10077), (55, 10122), (73, 10311), (81, 10374),

Gene: Sashimi_18 Start: 9853, Stop: 10826, Start Num: 7

Candidate Starts for Sashimi_18:

(Start: 7 @9853 has 6 MA's), (18, 10000), (25, 10096), (26, 10099), (27, 10108), (48, 10300), (54, 10345), (56, 10357), (59, 10414), (95, 10693), (97, 10702),

Gene: Seahorse_18 Start: 9917, Stop: 10800, Start Num: 9

Candidate Starts for Seahorse_18:

(Start: 9 @9917 has 2 MA's), (11, 9923), (12, 9929), (13, 9950), (24, 10100), (32, 10196), (36, 10232), (51, 10361), (53, 10370), (55, 10379), (61, 10469), (73, 10568), (81, 10631), (96, 10727),

Gene: SpicyFrank_17 Start: 9728, Stop: 10611, Start Num: 10

Candidate Starts for SpicyFrank_17:

(2, 9665), (Start: 10 @9728 has 45 MA's), (11, 9734), (12, 9740), (19, 9842), (21, 9869), (24, 9911), (25, 9926), (30, 9965), (34, 10031), (36, 10043), (42, 10076), (49, 10145), (55, 10190), (73, 10379), (81, 10442),

Gene: ThayneTheZag_17 Start: 9726, Stop: 10609, Start Num: 10

Candidate Starts for ThayneTheZag_17:

(1, 9636), (Start: 10 @9726 has 45 MA's), (11, 9732), (12, 9738), (13, 9759), (19, 9840), (24, 9909), (25, 9924), (30, 9963), (34, 10029), (36, 10041), (42, 10074), (49, 10143), (55, 10188), (61, 10278), (73, 10377), (81, 10440), (103, 10590),

Gene: Tiff81_18 Start: 9875, Stop: 10767, Start Num: 10

Candidate Starts for Tiff81_18:

(Start: 10 @9875 has 45 MA's), (11, 9881), (12, 9887), (24, 10058), (36, 10190), (49, 10292), (55, 10337), (72, 10517), (81, 10589), (84, 10604), (90, 10646),

Gene: TripleJ_16 Start: 9801, Stop: 10774, Start Num: 6

Candidate Starts for TripleJ_16:

(Start: 6 @9801 has 1 MA's), (27, 10056), (31, 10101), (48, 10248), (50, 10263), (54, 10293), (56, 10305), (57, 10311), (79, 10524), (95, 10641), (99, 10665),

Gene: Windest_18 Start: 9708, Stop: 10591, Start Num: 10

Candidate Starts for Windest_18:

(Start: 10 @9708 has 45 MA's), (11, 9714), (12, 9720), (13, 9741), (19, 9822), (24, 9891), (25, 9906), (30, 9945), (34, 10011), (36, 10023), (42, 10056), (49, 10125), (55, 10170), (64, 10284), (66, 10314), (73, 10359), (81, 10422),

Gene: YoungHarleezy_17 Start: 9664, Stop: 10547, Start Num: 10

Candidate Starts for YoungHarleezy_17:

(Start: 10 @9664 has 45 MA's), (11, 9670), (12, 9676), (13, 9697), (19, 9778), (24, 9847), (25, 9862), (30, 9901), (34, 9967), (36, 9979), (42, 10012), (49, 10081), (55, 10126), (73, 10315), (81, 10378),