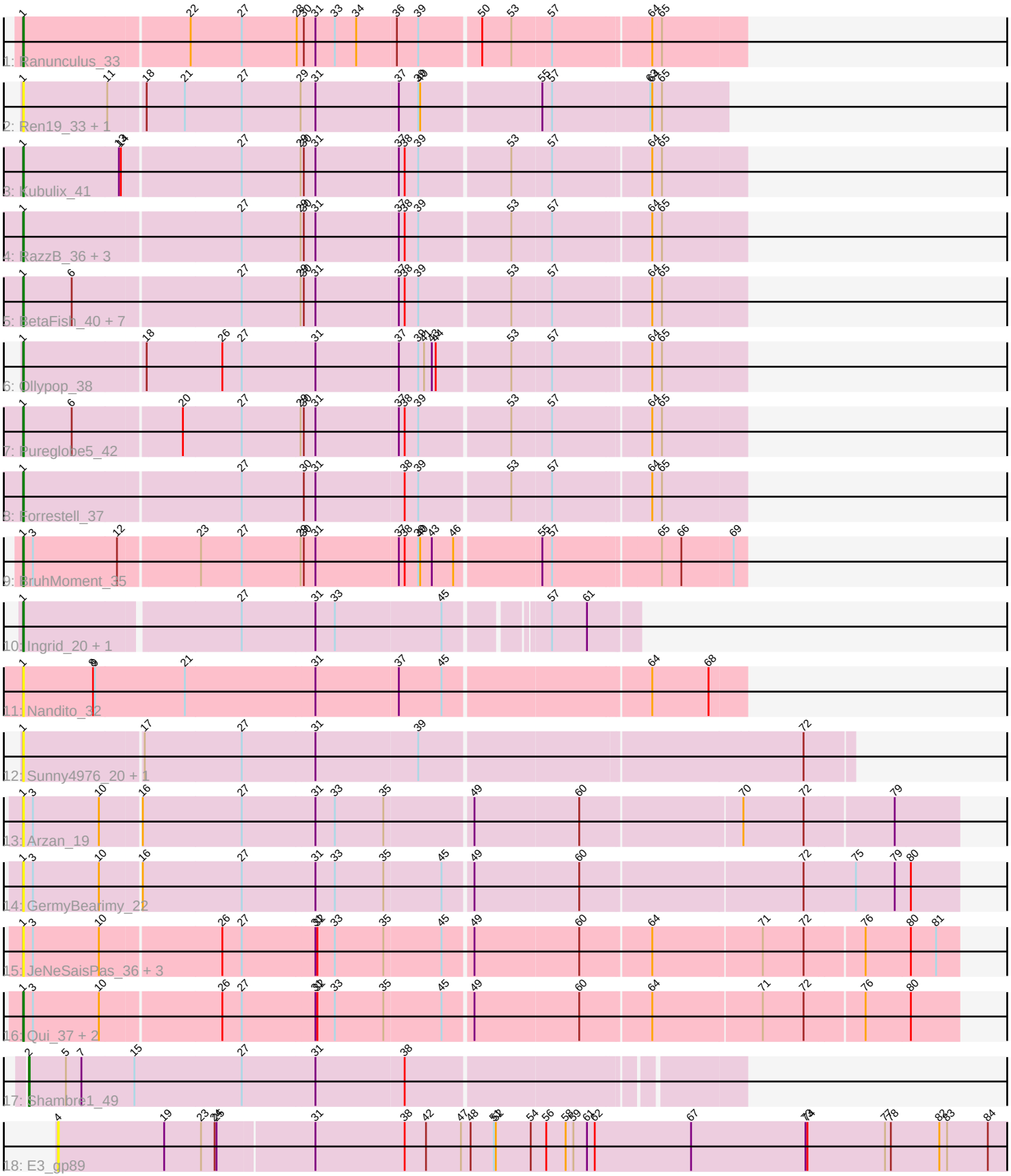
Pham 298629


1: Ranunculus_33
2: Ren19_33 + 1
3: Kubulix_41
4: RazzB_36 + 3
5: BetaFish_40 + 7
6: Ollypop_38
7: Pureglobe5_42
8: Forrestell_37
9: BruhMoment_35
10: Ingrid_20 + 1
11: Nandito_32
12: Sunny4976_20 + 1
13: Arzan_19
14: GermyBearimy_22
15: JeNeSaisPas_36 + 3
16: Qui_37 + 2
17: Shambre1_49
18: E3_gp89

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 298629 Report

This analysis was run 06/08/26 on database version 649.

Pham number 298629 has 36 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_33
• Track 2 : Ren19_33, Nikan_35
• Track 3 : Kubulix_41
• Track 4 : RazzB_36, NyleyClemson_35, RIPWilbur_38, MellowYellow_37
• Track 5 : BetaFish_40, Popstraw_38, Hive_39, PhuzzTulsa_38, Beagle_41, DogYard_40, Odyssey395_42, Pointis_39
• Track 6 : Ollypop_38
• Track 7 : Pureglobe5_42
• Track 8 : Forrestell_37
• Track 9 : BruhMoment_35
• Track 10 : Ingrid_20, Loretta_20
• Track 11 : Nandito_32
• Track 12 : Sunny4976_20, Jazzy4900_21
• Track 13 : Arzan_19
• Track 14 : GermyBearimy_22
• Track 15 : JeNeSaisPas_36, Gandionco_38, Marianna39_38, Kureo_38
• Track 16 : Qui_37, Paella_37, Elver_37
• Track 17 : Shambre1_49
• Track 18 : E3_gp89

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

The start number called the most often in the published annotations is 1, it was called in 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arzan_19, Beagle_41, BetaFish_40, BruhMoment_35, DogYard_40, Elver_37, Forrestell_37, Gandionco_38, GermyBearimy_22, Hive_39, Ingrid_20, Jazzy4900_21, JeNeSaisPas_36, Kubulix_41, Kureo_38, Loretta_20, Marianna39_38, MellowYellow_37, Nandito_32, Nikan_35, NyleyClemson_35, Odyssey395_42, Ollypop_38, Paella_37, PhuzzTulsa_38, Pointis_39, Popstraw_38, Pureglobe5_42, Qui_37, RIPWilbur_38, Ranunculus_33, RazzB_36, Ren19_33, Sunny4976_20,

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

•

Genes that do not have the "Most Annotated" start:
• E3_gp89, Shambre1_49,

Summary by start number:

Start 1:
• Found in 34 of 36 (94.4%) of genes in pham
• Manual Annotations of this start: 18 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arzan_19 (FI), Beagle_41 (AP2), BetaFish_40 (AP2), BruhMoment_35 (AP3), DogYard_40 (AP2), Elver_37 (FK), Forrestell_37 (AP2), Gandionco_38 (FK), GermyBearimy_22 (FI), Hive_39 (AP2), Ingrid_20 (AU3), Jazzy4900_21 (FI), JeNeSaisPas_36 (FK), Kubulix_41 (AP2), Kureo_38 (FK), Loretta_20 (AU3), Marianna39_38 (FK), MellowYellow_37 (AP2), Nandito_32 (FH), Nikan_35 (AP2), NyleyClemson_35 (AP2), Odyssey395_42 (AP2), Ollypop_38 (AP2), Paella_37 (FK), PhuzzTulsa_38 (AP2), Pointis_39 (AP2), Popstraw_38 (AP2), Pureglobe5_42 (AP2), Qui_37 (FK), RIPWilbur_38 (AP2), Ranunculus_33 (AP), RazzB_36 (AP2), Ren19_33 (AP2), Sunny4976_20 (FI),

Start 2:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shambre1_49 (singleton),

Start 4:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp89 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, AP2, AP3, AP, AU3, FH, FI, FK,

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

Info for manual annotations of cluster AP2:
•Start number 1 was manually annotated 11 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 1 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AU3:
•Start number 1 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster FK:

•Start number 1 was manually annotated 3 times for cluster FK.

Gene Information:

Gene: Arzan_19 Start: 14397, Stop: 15788, Start Num: 1
Candidate Starts for Arzan_19:
(Start: 1 @14397 has 18 MA's), (3, 14412), (10, 14514), (16, 14571), (27, 14721), (31, 14832), (33, 14862), (35, 14937), (49, 15066), (60, 15225), (70, 15465), (72, 15558), (79, 15690),

Gene: Beagle_41 Start: 28996, Stop: 30066, Start Num: 1
Candidate Starts for Beagle_41:
(Start: 1 @28996 has 18 MA's), (6, 29071), (27, 29320), (29, 29410), (30, 29413), (31, 29431), (37, 29557), (38, 29566), (39, 29587), (53, 29722), (57, 29782), (64, 29923), (65, 29938),

Gene: BetaFish_40 Start: 29190, Stop: 30260, Start Num: 1
Candidate Starts for BetaFish_40:
(Start: 1 @29190 has 18 MA's), (6, 29265), (27, 29514), (29, 29604), (30, 29607), (31, 29625), (37, 29751), (38, 29760), (39, 29781), (53, 29916), (57, 29976), (64, 30117), (65, 30132),

Gene: BruhMoment_35 Start: 28578, Stop: 29648, Start Num: 1
Candidate Starts for BruhMoment_35:
(Start: 1 @28578 has 18 MA's), (3, 28593), (12, 28722), (23, 28839), (27, 28902), (29, 28992), (30, 28995), (31, 29013), (37, 29139), (38, 29148), (39, 29169), (40, 29172), (43, 29190), (46, 29223), (55, 29349), (57, 29364), (65, 29520), (66, 29550), (69, 29628),

Gene: DogYard_40 Start: 28890, Stop: 29960, Start Num: 1
Candidate Starts for DogYard_40:
(Start: 1 @28890 has 18 MA's), (6, 28965), (27, 29214), (29, 29304), (30, 29307), (31, 29325), (37, 29451), (38, 29460), (39, 29481), (53, 29616), (57, 29676), (64, 29817), (65, 29832),

Gene: E3_gp89 Start: 50133, Stop: 51623, Start Num: 4
Candidate Starts for E3_gp89:
(4, 50133), (19, 50295), (23, 50352), (24, 50373), (25, 50376), (31, 50520), (38, 50658), (42, 50691), (47, 50745), (48, 50760), (51, 50796), (52, 50799), (54, 50853), (56, 50877), (58, 50907), (59, 50916), (61, 50937), (62, 50949), (67, 51096), (73, 51273), (74, 51276), (77, 51396), (78, 51405), (82, 51480), (83, 51492), (84, 51555),

Gene: Elver_37 Start: 25431, Stop: 26822, Start Num: 1
Candidate Starts for Elver_37:
(Start: 1 @25431 has 18 MA's), (3, 25446), (10, 25548), (26, 25725), (27, 25755), (31, 25866), (32, 25869), (33, 25896), (35, 25971), (45, 26058), (49, 26100), (60, 26259), (64, 26364), (71, 26529), (72, 26592), (76, 26679), (80, 26748),

Gene: Forrestell_37 Start: 27683, Stop: 28753, Start Num: 1
Candidate Starts for Forrestell_37:
(Start: 1 @27683 has 18 MA's), (27, 28007), (30, 28100), (31, 28118), (38, 28253), (39, 28274), (53, 28409), (57, 28469), (64, 28610), (65, 28625),

Gene: Gandionco_38 Start: 25953, Stop: 27344, Start Num: 1
Candidate Starts for Gandionco_38:

(Start: 1 @25953 has 18 MA's), (3, 25968), (10, 26070), (26, 26247), (27, 26277), (31, 26388), (32, 26391), (33, 26418), (35, 26493), (45, 26580), (49, 26622), (60, 26781), (64, 26886), (71, 27051), (72, 27114), (76, 27201), (80, 27270), (81, 27309),

Gene: GermyBearimy_22 Start: 14822, Stop: 16219, Start Num: 1
Candidate Starts for GermyBearimy_22:
(Start: 1 @14822 has 18 MA's), (3, 14837), (10, 14939), (16, 14996), (27, 15146), (31, 15257), (33, 15287), (35, 15362), (45, 15449), (49, 15491), (60, 15650), (72, 15983), (75, 16061), (79, 16121), (80, 16145),

Gene: Hive_39 Start: 29071, Stop: 30141, Start Num: 1
Candidate Starts for Hive_39:
(Start: 1 @29071 has 18 MA's), (6, 29146), (27, 29395), (29, 29485), (30, 29488), (31, 29506), (37, 29632), (38, 29641), (39, 29662), (53, 29797), (57, 29857), (64, 29998), (65, 30013),

Gene: Ingrid_20 Start: 14558, Stop: 15445, Start Num: 1
Candidate Starts for Ingrid_20:
(Start: 1 @14558 has 18 MA's), (27, 14876), (31, 14987), (33, 15017), (45, 15179), (57, 15317), (61, 15371),

Gene: Jazzy4900_21 Start: 14415, Stop: 15650, Start Num: 1
Candidate Starts for Jazzy4900_21:
(Start: 1 @14415 has 18 MA's), (17, 14592), (27, 14739), (31, 14850), (39, 15006), (72, 15576),

Gene: JeNeSaisPas_36 Start: 25966, Stop: 27357, Start Num: 1
Candidate Starts for JeNeSaisPas_36:
(Start: 1 @25966 has 18 MA's), (3, 25981), (10, 26083), (26, 26260), (27, 26290), (31, 26401), (32, 26404), (33, 26431), (35, 26506), (45, 26593), (49, 26635), (60, 26794), (64, 26899), (71, 27064), (72, 27127), (76, 27214), (80, 27283), (81, 27322),

Gene: Kubulix_41 Start: 29186, Stop: 30256, Start Num: 1
Candidate Starts for Kubulix_41:
(Start: 1 @29186 has 18 MA's), (13, 29333), (14, 29336), (27, 29510), (29, 29600), (30, 29603), (31, 29621), (37, 29747), (38, 29756), (39, 29777), (53, 29912), (57, 29972), (64, 30113), (65, 30128),

Gene: Kureo_38 Start: 24776, Stop: 26167, Start Num: 1
Candidate Starts for Kureo_38:
(Start: 1 @24776 has 18 MA's), (3, 24791), (10, 24893), (26, 25070), (27, 25100), (31, 25211), (32, 25214), (33, 25241), (35, 25316), (45, 25403), (49, 25445), (60, 25604), (64, 25709), (71, 25874), (72, 25937), (76, 26024), (80, 26093), (81, 26132),

Gene: Loretta_20 Start: 14558, Stop: 15445, Start Num: 1
Candidate Starts for Loretta_20:
(Start: 1 @14558 has 18 MA's), (27, 14876), (31, 14987), (33, 15017), (45, 15179), (57, 15317), (61, 15371),

Gene: Marianna39_38 Start: 25953, Stop: 27344, Start Num: 1
Candidate Starts for Marianna39_38:
(Start: 1 @25953 has 18 MA's), (3, 25968), (10, 26070), (26, 26247), (27, 26277), (31, 26388), (32, 26391), (33, 26418), (35, 26493), (45, 26580), (49, 26622), (60, 26781), (64, 26886), (71, 27051), (72, 27114), (76, 27201), (80, 27270), (81, 27309),

Gene: MellowYellow_37 Start: 27731, Stop: 28801, Start Num: 1

Candidate Starts for MellowYellow_37:
(Start: 1 @27731 has 18 MA's), (27, 28055), (29, 28145), (30, 28148), (31, 28166), (37, 28292), (38, 28301), (39, 28322), (53, 28457), (57, 28517), (64, 28658), (65, 28673),

Gene: Nandito_32 Start: 24206, Stop: 25291, Start Num: 1
Candidate Starts for Nandito_32:
(Start: 1 @24206 has 18 MA's), (8, 24314), (9, 24317), (21, 24455), (31, 24653), (37, 24779), (45, 24845), (64, 25148), (68, 25235),

Gene: Nikan_35 Start: 27986, Stop: 29035, Start Num: 1
Candidate Starts for Nikan_35:
(Start: 1 @27986 has 18 MA's), (11, 28115), (18, 28166), (21, 28223), (27, 28310), (29, 28400), (31, 28421), (37, 28547), (39, 28577), (40, 28580), (55, 28757), (57, 28772), (63, 28916), (64, 28919), (65, 28934),

Gene: NyleyClemson_35 Start: 27664, Stop: 28734, Start Num: 1
Candidate Starts for NyleyClemson_35:
(Start: 1 @27664 has 18 MA's), (27, 27988), (29, 28078), (30, 28081), (31, 28099), (37, 28225), (38, 28234), (39, 28255), (53, 28390), (57, 28450), (64, 28591), (65, 28606),

Gene: Odyssey395_42 Start: 29015, Stop: 30085, Start Num: 1
Candidate Starts for Odyssey395_42:
(Start: 1 @29015 has 18 MA's), (6, 29090), (27, 29339), (29, 29429), (30, 29432), (31, 29450), (37, 29576), (38, 29585), (39, 29606), (53, 29741), (57, 29801), (64, 29942), (65, 29957),

Gene: Ollypop_38 Start: 28092, Stop: 29162, Start Num: 1
Candidate Starts for Ollypop_38:
(Start: 1 @28092 has 18 MA's), (18, 28272), (26, 28386), (27, 28416), (31, 28527), (37, 28653), (39, 28683), (41, 28692), (43, 28704), (44, 28710), (53, 28818), (57, 28878), (64, 29019), (65, 29034),

Gene: Paella_37 Start: 25433, Stop: 26824, Start Num: 1
Candidate Starts for Paella_37:
(Start: 1 @25433 has 18 MA's), (3, 25448), (10, 25550), (26, 25727), (27, 25757), (31, 25868), (32, 25871), (33, 25898), (35, 25973), (45, 26060), (49, 26102), (60, 26261), (64, 26366), (71, 26531), (72, 26594), (76, 26681), (80, 26750),

Gene: PhuzzTulsa_38 Start: 28975, Stop: 30045, Start Num: 1
Candidate Starts for PhuzzTulsa_38:
(Start: 1 @28975 has 18 MA's), (6, 29050), (27, 29299), (29, 29389), (30, 29392), (31, 29410), (37, 29536), (38, 29545), (39, 29566), (53, 29701), (57, 29761), (64, 29902), (65, 29917),

Gene: Pointis_39 Start: 29013, Stop: 30083, Start Num: 1
Candidate Starts for Pointis_39:
(Start: 1 @29013 has 18 MA's), (6, 29088), (27, 29337), (29, 29427), (30, 29430), (31, 29448), (37, 29574), (38, 29583), (39, 29604), (53, 29739), (57, 29799), (64, 29940), (65, 29955),

Gene: Popstraw_38 Start: 28799, Stop: 29869, Start Num: 1
Candidate Starts for Popstraw_38:
(Start: 1 @28799 has 18 MA's), (6, 28874), (27, 29123), (29, 29213), (30, 29216), (31, 29234), (37, 29360), (38, 29369), (39, 29390), (53, 29525), (57, 29585), (64, 29726), (65, 29741),

Gene: Pureglobe5_42 Start: 29196, Stop: 30266, Start Num: 1
Candidate Starts for Pureglobe5_42:

(Start: 1 @29196 has 18 MA's), (6, 29271), (20, 29430), (27, 29520), (29, 29610), (30, 29613), (31, 29631), (37, 29757), (38, 29766), (39, 29787), (53, 29922), (57, 29982), (64, 30123), (65, 30138),

Gene: Qui_37 Start: 25433, Stop: 26824, Start Num: 1
Candidate Starts for Qui_37:
(Start: 1 @25433 has 18 MA's), (3, 25448), (10, 25550), (26, 25727), (27, 25757), (31, 25868), (32, 25871), (33, 25898), (35, 25973), (45, 26060), (49, 26102), (60, 26261), (64, 26366), (71, 26531), (72, 26594), (76, 26681), (80, 26750),

Gene: RIPWilbur_38 Start: 28329, Stop: 29399, Start Num: 1
Candidate Starts for RIPWilbur_38:
(Start: 1 @28329 has 18 MA's), (27, 28653), (29, 28743), (30, 28746), (31, 28764), (37, 28890), (38, 28899), (39, 28920), (53, 29055), (57, 29115), (64, 29256), (65, 29271),

Gene: Ranunculus_33 Start: 28223, Stop: 29293, Start Num: 1
Candidate Starts for Ranunculus_33:
(Start: 1 @28223 has 18 MA's), (22, 28469), (27, 28547), (28, 28631), (30, 28640), (31, 28658), (33, 28688), (34, 28721), (36, 28781), (39, 28814), (50, 28904), (53, 28949), (57, 29009), (64, 29150), (65, 29165),

Gene: RazzB_36 Start: 27477, Stop: 28547, Start Num: 1
Candidate Starts for RazzB_36:
(Start: 1 @27477 has 18 MA's), (27, 27801), (29, 27891), (30, 27894), (31, 27912), (37, 28038), (38, 28047), (39, 28068), (53, 28203), (57, 28263), (64, 28404), (65, 28419),

Gene: Ren19_33 Start: 27986, Stop: 29035, Start Num: 1
Candidate Starts for Ren19_33:
(Start: 1 @27986 has 18 MA's), (11, 28115), (18, 28166), (21, 28223), (27, 28310), (29, 28400), (31, 28421), (37, 28547), (39, 28577), (40, 28580), (55, 28757), (57, 28772), (63, 28916), (64, 28919), (65, 28934),

Gene: Shambre1_49 Start: 30214, Stop: 31269, Start Num: 2
Candidate Starts for Shambre1_49:
(Start: 2 @30214 has 1 MA's), (5, 30271), (7, 30295), (15, 30376), (27, 30541), (31, 30652), (38, 30787),

Gene: Sunny4976_20 Start: 14415, Stop: 15650, Start Num: 1
Candidate Starts for Sunny4976_20:
(Start: 1 @14415 has 18 MA's), (17, 14592), (27, 14739), (31, 14850), (39, 15006), (72, 15576),