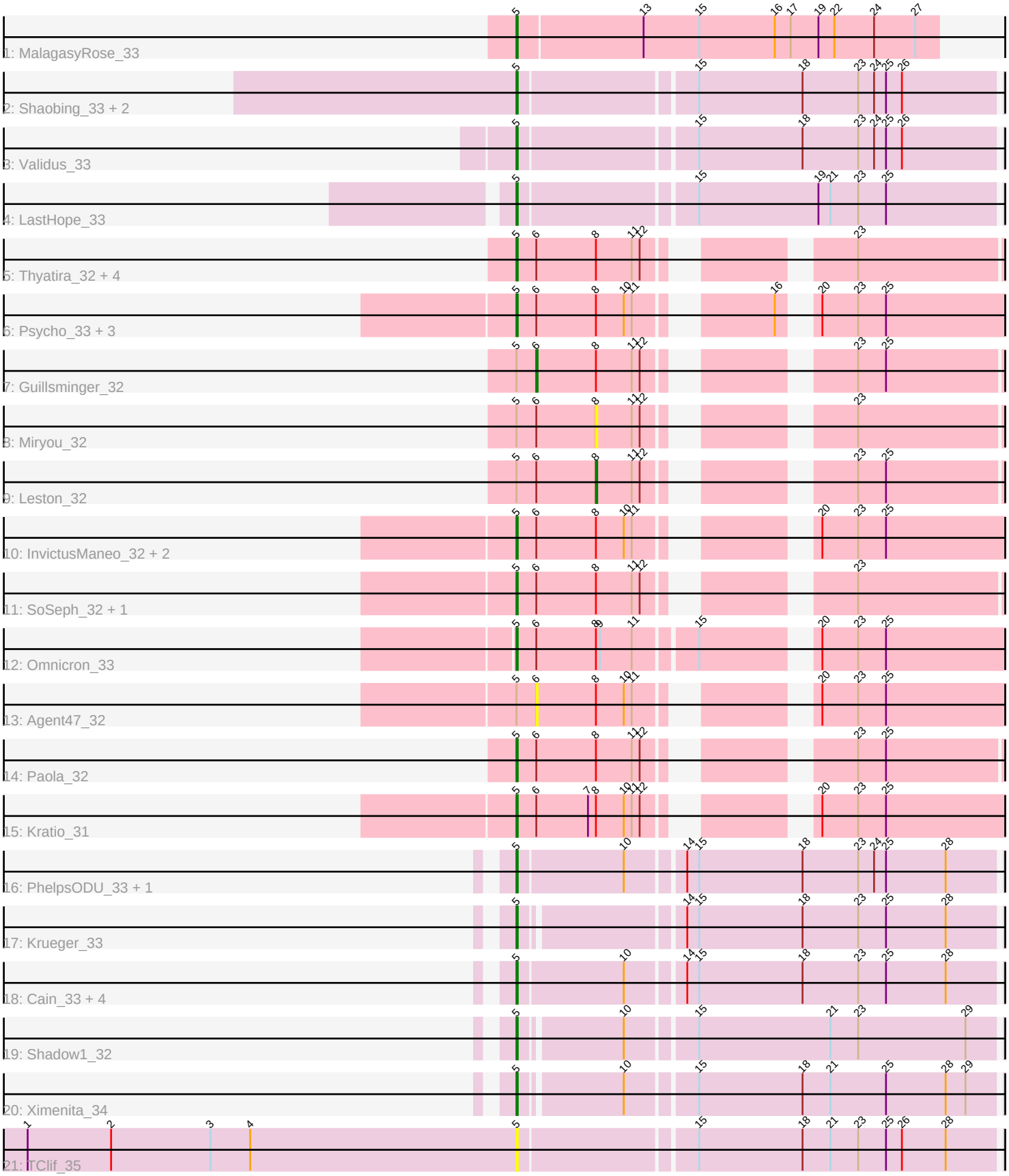
Pham 163757


1: MalagasyRose_33
2: Shaobing_33 + 2
3: Validus_33
4: LastHope_33
5: Thyatira_32 + 4
6: Psycho_33 + 3
7: Guillsminger_32
8: Miryou_32
9: Leston_32
10: InvictusManeo_32 + 2
11: SoSeph_32 + 1
12: Omnicron_33
13: Agent47_32
14: Paola_32
15: Kratio_31
16: PhelpsODU_33 + 1
17: Krueger_33
18: Cain_33 + 4
19: Shadow1_32
20: Ximenita_34
21: TClif_35

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 163757 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163757 has 38 members, 3 are drafts.

Phages represented in each track:
• Track 1 : MalagasyRose_33
• Track 2 : Shaobing_33, Peanam_33, Niklas_33
• Track 3 : Validus_33
• Track 4 : LastHope_33
• Track 5 : Thyatira_32, Gengar_32, OkiRoe_32, Waterfoul_32, Feyre_32
• Track 6 : Psycho_33, AlleyCat_33, Larva_33, Dadosky_33
• Track 7 : Guillsminger_32
• Track 8 : Miryou_32
• Track 9 : Leston_32
• Track 10 : InvictusManeo_32, Edugator_32, Collard_32
• Track 11 : SoSeph_32, Heftyboy_32
• Track 12 : Omnicron_33
• Track 13 : Agent47_32
• Track 14 : Paola_32
• Track 15 : Kratio_31
• Track 16 : PhelpsODU_33, Unicorn_33
• Track 17 : Krueger_33
• Track 18 : Cain_33, Bryler_33, Phrank_33, Tierra_33, Sunflower1121_32
• Track 19 : Shadow1_32
• Track 20 : Ximenita_34
• Track 21 : TClif_35

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

The start number called the most often in the published annotations is 5, it was called in 33 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlleyCat_33, Bryler_33, Cain_33, Collard_32, Dadosky_33, Edugator_32, Feyre_32, Gengar_32, Heftyboy_32, InvictusManeo_32, Kratio_31, Krueger_33, Larva_33, LastHope_33, MalagasyRose_33, Niklas_33, OkiRoe_32, Omnicron_33, Paola_32, Peanam_33, PhelpsODU_33, Phrank_33, Psycho_33, Shadow1_32, Shaobing_33, SoSeph_32, Sunflower1121_32, TClif_35, Thyatira_32, Tierra_33, Unicorn_33, Validus_33, Waterfoul_32, Ximenita_34,

Genes that have the "Most Annotated" start but do not call it:
• Agent47_32, Guillsminger_32, Leston_32, Miryou_32,

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

Summary by start number:

Start 5:
• Found in 38 of 38 (100.0%) of genes in pham
• Manual Annotations of this start: 33 of 35
• Called 89.5% of time when present
• Phage (with cluster) where this start called: AlleyCat_33 (K5), Bryler_33 (K6), Cain_33 (K6), Collard_32 (K5), Dadosky_33 (K5), Edugator_32 (K5), Feyre_32 (K5), Gengar_32 (K5), Heftyboy_32 (K5), InvictusManeo_32 (K5), Kratio_31 (K5), Krueger_33 (K6), Larva_33 (K5), LastHope_33 (K1), MalagasyRose_33 (AG), Niklas_33 (K1), OkiRoe_32 (K5), Omnicron_33 (K5), Paola_32 (K5), Peanam_33 (K1), PhelpsODU_33 (K6), Phrank_33 (K6), Psycho_33 (K5), Shadow1_32 (K6), Shaobing_33 (K1), SoSeph_32 (K5), Sunflower1121_32 (K6), TClif_35 (K6), Thyatira_32 (K5), Tierra_33 (K6), Unicorn_33 (K6), Validus_33 (K1), Waterfoul_32 (K5), Ximenita_34 (K6),

Start 6:
• Found in 21 of 38 (55.3%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 9.5% of time when present
• Phage (with cluster) where this start called: Agent47_32 (K5), Guillsminger_32 (K5),

Start 8:
• Found in 21 of 38 (55.3%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 9.5% of time when present
• Phage (with cluster) where this start called: Leston_32 (K5), Miryou_32 (K5),

Summary by clusters:

There are 4 clusters represented in this pham: AG, K1, K6, K5,

Info for manual annotations of cluster AG:
•Start number 5 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K1:
•Start number 5 was manually annotated 5 times for cluster K1.

Info for manual annotations of cluster K5:
•Start number 5 was manually annotated 17 times for cluster K5.
•Start number 6 was manually annotated 1 time for cluster K5.
•Start number 8 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:
•Start number 5 was manually annotated 10 times for cluster K6.

Gene Information:

Gene: Agent47_32 Start: 28449, Stop: 28763, Start Num: 6
Candidate Starts for Agent47_32:
(Start: 5 @28434 has 33 MA's), (Start: 6 @28449 has 1 MA's), (Start: 8 @28494 has 1 MA's), (10, 28515), (11, 28521), (20, 28614), (23, 28641), (25, 28662),

Gene: AlleyCat_33 Start: 28365, Stop: 28694, Start Num: 5
Candidate Starts for AlleyCat_33:
(Start: 5 @28365 has 33 MA's), (Start: 6 @28380 has 1 MA's), (Start: 8 @28425 has 1 MA's), (10, 28446), (11, 28452), (16, 28530), (20, 28545), (23, 28572), (25, 28593),

Gene: Bryler_33 Start: 27088, Stop: 27450, Start Num: 5
Candidate Starts for Bryler_33:
(Start: 5 @27088 has 33 MA's), (10, 27166), (14, 27205), (15, 27214), (18, 27292), (23, 27334), (25, 27355), (28, 27400),

Gene: Cain_33 Start: 27076, Stop: 27438, Start Num: 5
Candidate Starts for Cain_33:
(Start: 5 @27076 has 33 MA's), (10, 27154), (14, 27193), (15, 27202), (18, 27280), (23, 27322), (25, 27343), (28, 27388),

Gene: Collard_32 Start: 28395, Stop: 28724, Start Num: 5
Candidate Starts for Collard_32:
(Start: 5 @28395 has 33 MA's), (Start: 6 @28410 has 1 MA's), (Start: 8 @28455 has 1 MA's), (10, 28476), (11, 28482), (20, 28575), (23, 28602), (25, 28623),

Gene: Dadosky_33 Start: 28366, Stop: 28695, Start Num: 5
Candidate Starts for Dadosky_33:
(Start: 5 @28366 has 33 MA's), (Start: 6 @28381 has 1 MA's), (Start: 8 @28426 has 1 MA's), (10, 28447), (11, 28453), (16, 28531), (20, 28546), (23, 28573), (25, 28594),

Gene: Edugator_32 Start: 28365, Stop: 28694, Start Num: 5
Candidate Starts for Edugator_32:
(Start: 5 @28365 has 33 MA's), (Start: 6 @28380 has 1 MA's), (Start: 8 @28425 has 1 MA's), (10, 28446), (11, 28452), (20, 28545), (23, 28572), (25, 28593),

Gene: Feyre_32 Start: 28282, Stop: 28608, Start Num: 5
Candidate Starts for Feyre_32:
(Start: 5 @28282 has 33 MA's), (Start: 6 @28297 has 1 MA's), (Start: 8 @28342 has 1 MA's), (11, 28369), (12, 28375), (23, 28489),

Gene: Gengar_32 Start: 28392, Stop: 28718, Start Num: 5
Candidate Starts for Gengar_32:
(Start: 5 @28392 has 33 MA's), (Start: 6 @28407 has 1 MA's), (Start: 8 @28452 has 1 MA's), (11, 28479), (12, 28485), (23, 28599),

Gene: Guillsminger_32 Start: 28379, Stop: 28699, Start Num: 6
Candidate Starts for Guillsminger_32:
(Start: 5 @28364 has 33 MA's), (Start: 6 @28379 has 1 MA's), (Start: 8 @28424 has 1 MA's), (11, 28451), (12, 28457), (23, 28571), (25, 28592),

Gene: Heftyboy_32 Start: 28510, Stop: 28845, Start Num: 5
Candidate Starts for Heftyboy_32:
(Start: 5 @28510 has 33 MA's), (Start: 6 @28525 has 1 MA's), (Start: 8 @28570 has 1 MA's), (11, 28597), (12, 28603), (23, 28717),

Gene: InvictusManeo_32 Start: 28438, Stop: 28767, Start Num: 5
Candidate Starts for InvictusManeo_32:
(Start: 5 @28438 has 33 MA's), (Start: 6 @28453 has 1 MA's), (Start: 8 @28498 has 1 MA's), (10, 28519), (11, 28525), (20, 28618), (23, 28645), (25, 28666),

Gene: Kratio_31 Start: 28069, Stop: 28398, Start Num: 5
Candidate Starts for Kratio_31:
(Start: 5 @28069 has 33 MA's), (Start: 6 @28084 has 1 MA's), (7, 28123), (Start: 8 @28129 has 1 MA's), (10, 28150), (11, 28156), (12, 28162), (20, 28249), (23, 28276), (25, 28297),

Gene: Krueger_33 Start: 26955, Stop: 27311, Start Num: 5
Candidate Starts for Krueger_33:
(Start: 5 @26955 has 33 MA's), (14, 27066), (15, 27075), (18, 27153), (23, 27195), (25, 27216), (28, 27261),

Gene: Larva_33 Start: 28233, Stop: 28562, Start Num: 5
Candidate Starts for Larva_33:
(Start: 5 @28233 has 33 MA's), (Start: 6 @28248 has 1 MA's), (Start: 8 @28293 has 1 MA's), (10, 28314), (11, 28320), (16, 28398), (20, 28413), (23, 28440), (25, 28461),

Gene: LastHope_33 Start: 26912, Stop: 27274, Start Num: 5
Candidate Starts for LastHope_33:
(Start: 5 @26912 has 33 MA's), (15, 27038), (19, 27128), (21, 27137), (23, 27158), (25, 27179),

Gene: Leston_32 Start: 28554, Stop: 28829, Start Num: 8
Candidate Starts for Leston_32:
(Start: 5 @28494 has 33 MA's), (Start: 6 @28509 has 1 MA's), (Start: 8 @28554 has 1 MA's), (11, 28581), (12, 28587), (23, 28701), (25, 28722),

Gene: MalagasyRose_33 Start: 27132, Stop: 27446, Start Num: 5
Candidate Starts for MalagasyRose_33:
(Start: 5 @27132 has 33 MA's), (13, 27225), (15, 27267), (16, 27324), (17, 27336), (19, 27357), (22, 27369), (24, 27399), (27, 27429),

Gene: Miryou_32 Start: 28409, Stop: 28684, Start Num: 8
Candidate Starts for Miryou_32:
(Start: 5 @28349 has 33 MA's), (Start: 6 @28364 has 1 MA's), (Start: 8 @28409 has 1 MA's), (11, 28436), (12, 28442), (23, 28556),

Gene: Niklas_33 Start: 27086, Stop: 27448, Start Num: 5
Candidate Starts for Niklas_33:
(Start: 5 @27086 has 33 MA's), (15, 27212), (18, 27290), (23, 27332), (24, 27344), (25, 27353), (26, 27365),

Gene: OkiRoe_32 Start: 28365, Stop: 28691, Start Num: 5
Candidate Starts for OkiRoe_32:

(Start: 5 @28365 has 33 MA's), (Start: 6 @28380 has 1 MA's), (Start: 8 @28425 has 1 MA's), (11, 28452), (12, 28458), (23, 28572),

Gene: Omnicron_33 Start: 27250, Stop: 27609, Start Num: 5
Candidate Starts for Omnicron_33:
(Start: 5 @27250 has 33 MA's), (Start: 6 @27265 has 1 MA's), (Start: 8 @27310 has 1 MA's), (9, 27313), (11, 27337), (15, 27379), (20, 27451), (23, 27478), (25, 27499),

Gene: Paola_32 Start: 28364, Stop: 28699, Start Num: 5
Candidate Starts for Paola_32:
(Start: 5 @28364 has 33 MA's), (Start: 6 @28379 has 1 MA's), (Start: 8 @28424 has 1 MA's), (11, 28451), (12, 28457), (23, 28571), (25, 28592),

Gene: Peanam_33 Start: 27083, Stop: 27445, Start Num: 5
Candidate Starts for Peanam_33:
(Start: 5 @27083 has 33 MA's), (15, 27209), (18, 27287), (23, 27329), (24, 27341), (25, 27350), (26, 27362),

Gene: PhelpsODU_33 Start: 27114, Stop: 27476, Start Num: 5
Candidate Starts for PhelpsODU_33:
(Start: 5 @27114 has 33 MA's), (10, 27192), (14, 27231), (15, 27240), (18, 27318), (23, 27360), (24, 27372), (25, 27381), (28, 27426),

Gene: Phrank_33 Start: 27064, Stop: 27426, Start Num: 5
Candidate Starts for Phrank_33:
(Start: 5 @27064 has 33 MA's), (10, 27142), (14, 27181), (15, 27190), (18, 27268), (23, 27310), (25, 27331), (28, 27376),

Gene: Psycho_33 Start: 28363, Stop: 28692, Start Num: 5
Candidate Starts for Psycho_33:
(Start: 5 @28363 has 33 MA's), (Start: 6 @28378 has 1 MA's), (Start: 8 @28423 has 1 MA's), (10, 28444), (11, 28450), (16, 28528), (20, 28543), (23, 28570), (25, 28591),

Gene: Shadow1_32 Start: 26937, Stop: 27293, Start Num: 5
Candidate Starts for Shadow1_32:
(Start: 5 @26937 has 33 MA's), (10, 27009), (15, 27057), (21, 27156), (23, 27177), (29, 27258),

Gene: Shaobing_33 Start: 27083, Stop: 27445, Start Num: 5
Candidate Starts for Shaobing_33:
(Start: 5 @27083 has 33 MA's), (15, 27209), (18, 27287), (23, 27329), (24, 27341), (25, 27350), (26, 27362),

Gene: SoSeph_32 Start: 28510, Stop: 28845, Start Num: 5
Candidate Starts for SoSeph_32:
(Start: 5 @28510 has 33 MA's), (Start: 6 @28525 has 1 MA's), (Start: 8 @28570 has 1 MA's), (11, 28597), (12, 28603), (23, 28717),

Gene: Sunflower1121_32 Start: 26949, Stop: 27311, Start Num: 5
Candidate Starts for Sunflower1121_32:
(Start: 5 @26949 has 33 MA's), (10, 27027), (14, 27066), (15, 27075), (18, 27153), (23, 27195), (25, 27216), (28, 27261),

Gene: TClif_35 Start: 27522, Stop: 27884, Start Num: 5

Candidate Starts for TClif_35:
(1, 27153), (2, 27216), (3, 27291), (4, 27321), (Start: 5 @27522 has 33 MA's), (15, 27648), (18, 27726), (21, 27747), (23, 27768), (25, 27789), (26, 27801), (28, 27834),

Gene: Thyatira_32 Start: 28364, Stop: 28699, Start Num: 5
Candidate Starts for Thyatira_32:
(Start: 5 @28364 has 33 MA's), (Start: 6 @28379 has 1 MA's), (Start: 8 @28424 has 1 MA's), (11, 28451), (12, 28457), (23, 28571),

Gene: Tierra_33 Start: 27785, Stop: 28147, Start Num: 5
Candidate Starts for Tierra_33:
(Start: 5 @27785 has 33 MA's), (10, 27863), (14, 27902), (15, 27911), (18, 27989), (23, 28031), (25, 28052), (28, 28097),

Gene: Unicorn_33 Start: 27114, Stop: 27476, Start Num: 5
Candidate Starts for Unicorn_33:
(Start: 5 @27114 has 33 MA's), (10, 27192), (14, 27231), (15, 27240), (18, 27318), (23, 27360), (24, 27372), (25, 27381), (28, 27426),

Gene: Validus_33 Start: 27015, Stop: 27377, Start Num: 5
Candidate Starts for Validus_33:
(Start: 5 @27015 has 33 MA's), (15, 27141), (18, 27219), (23, 27261), (24, 27273), (25, 27282), (26, 27294),

Gene: Waterfoul_32 Start: 28388, Stop: 28723, Start Num: 5
Candidate Starts for Waterfoul_32:
(Start: 5 @28388 has 33 MA's), (Start: 6 @28403 has 1 MA's), (Start: 8 @28448 has 1 MA's), (11, 28475), (12, 28481), (23, 28595),

Gene: Ximenita_34 Start: 27141, Stop: 27497, Start Num: 5
Candidate Starts for Ximenita_34:
(Start: 5 @27141 has 33 MA's), (10, 27213), (15, 27261), (18, 27339), (21, 27360), (25, 27402), (28, 27447), (29, 27462),