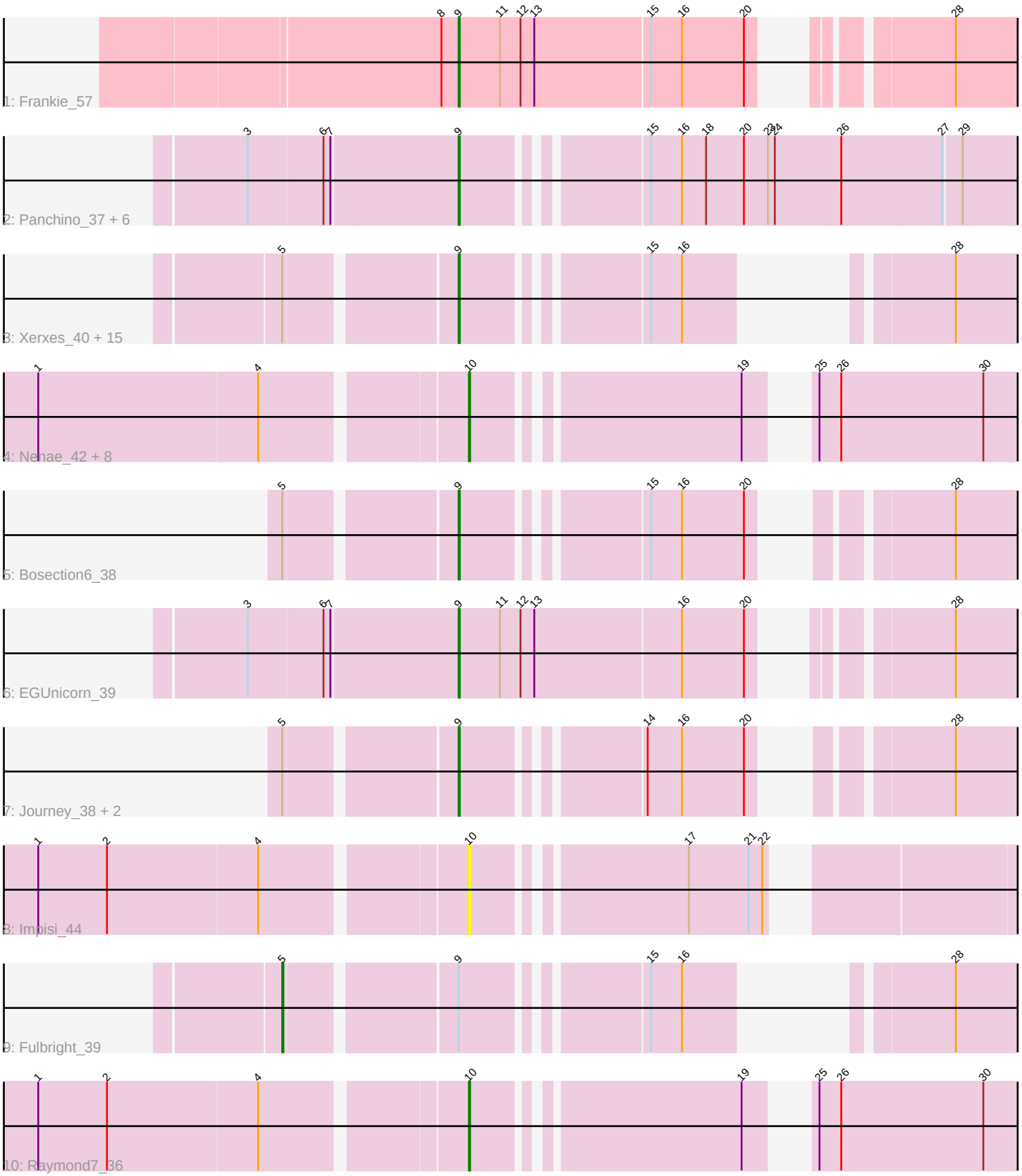
Pham 311782


1: Frankie_57
2: Panchino_37 + 6
3: Xerxes_40 + 15
4: Nenae_42 + 8
5: Bosection6_38
6: EGUnicorn_39
7: Journey_38 + 2
8: Impisi_44
9: Fulbright_39
10: Raymond7_36

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 311782 Report

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

Pham number 311782 has 41 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Frankie_57
• Track 2 : Panchino_37, Jamie19_38, Phrann_42, Shweta_38, SpongeBob_38, Snekmaggedon_38, Andies_38
• Track 3 : Xerxes_40, Melville_43, Magsby_40, Phloss_38, Tessdabest_41, Schnauzer_41, Pipsqueaks_40, Parmesanjohn_40, Smurph_40, Silvafighter_41, Tapioca_42, Chewbacca_42, Duplicity_40, Tortoise12_39, Carcharodon_40, Gex_40
• Track 4 : Nenae_42, Spinach_42, Redi_42, Rebel_34, Purgamenstris_42, Hanako_42, ShrimpFriedEgg_42, BabeRuth_43, PhancyPhin_42
• Track 5 : Bosection6_38
• Track 6 : EGUnicorn_39
• Track 7 : Journey_38, Charlie_39, Cubone_41
• Track 8 : Impisi_44
• Track 9 : Fulbright_39
• Track 10 : Raymond7_36

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

The start number called the most often in the published annotations is 9, it was called in 27 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Andies_38, Bosection6_38, Carcharodon_40, Charlie_39, Chewbacca_42, Cubone_41, Duplicity_40, EGUnicorn_39, Frankie_57, Gex_40, Jamie19_38, Journey_38, Magsby_40, Melville_43, Panchino_37, Parmesanjohn_40, Phloss_38, Phrann_42, Pipsqueaks_40, Schnauzer_41, Shweta_38, Silvafighter_41, Smurph_40, Snekmaggedon_38, SpongeBob_38, Tapioca_42, Tessdabest_41, Tortoise12_39, Xerxes_40,

Genes that have the "Most Annotated" start but do not call it:
• Fulbright_39,

Genes that do not have the "Most Annotated" start:
• BabeRuth_43, Hanako_42, Impisi_44, Nenae_42, PhancyPhin_42, Purgamenstris_42, Raymond7_36, Rebel_34, Redi_42, ShrimpFriedEgg_42,

Spinach_42,

Summary by start number:

Start 5:
• Found in 21 of 41 (51.2%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Fulbright_39 (N),

Start 9:
• Found in 30 of 41 (73.2%) of genes in pham
• Manual Annotations of this start: 27 of 38
• Called 96.7% of time when present
• Phage (with cluster) where this start called: Andies_38 (N), Bosection6_38 (N), Carcharodon_40 (N), Charlie_39 (N), Chewbacca_42 (N), Cubone_41 (N), Duplicity_40 (N), EGUnicorn_39 (N), Frankie_57 (F1), Gex_40 (N), Jamie19_38 (N), Journey_38 (N), Magsby_40 (N), Melville_43 (N), Panchino_37 (N), Parmesanjohn_40 (N), Phloss_38 (N), Phrann_42 (N), Pipsqueaks_40 (N), Schnauzer_41 (N), Shweta_38 (N), Silvafighter_41 (N), Smurph_40 (N), Snekmaggedon_38 (N), SpongeBob_38 (N), Tapioca_42 (N), Tessdabest_41 (N), Tortoise12_39 (N), Xerxes_40 (N),

Start 10:
• Found in 11 of 41 (26.8%) of genes in pham
• Manual Annotations of this start: 10 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabeRuth_43 (N), Hanako_42 (N), Impisi_44 (N), Nenae_42 (N), PhancyPhin_42 (N), Purgamenstris_42 (N), Raymond7_36 (N), Rebel_34 (N), Redi_42 (N), ShrimpFriedEgg_42 (N), Spinach_42 (N),

Summary by clusters:

There are 2 clusters represented in this pham: F1, N,

Info for manual annotations of cluster F1:
•Start number 9 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:
•Start number 5 was manually annotated 1 time for cluster N.
•Start number 9 was manually annotated 26 times for cluster N.
•Start number 10 was manually annotated 10 times for cluster N.

Gene Information:

Gene: Andies_38 Start: 29162, Stop: 29656, Start Num: 9
Candidate Starts for Andies_38:
(3, 28985), (6, 29048), (7, 29054), (Start: 9 @29162 has 27 MA's), (15, 29300), (16, 29327), (18, 29348), (20, 29381), (23, 29402), (24, 29408), (26, 29465), (27, 29552), (29, 29567),

Gene: BabeRuth_43 Start: 30203, Stop: 30670, Start Num: 10
Candidate Starts for BabeRuth_43:
(1, 29849), (4, 30038), (Start: 10 @30203 has 10 MA's), (19, 30413), (25, 30440), (26, 30458), (30, 30581),

Gene: Bosection6_38 Start: 28647, Stop: 29075, Start Num: 9
Candidate Starts for Bosection6_38:
(Start: 5 @28515 has 1 MA's), (Start: 9 @28647 has 27 MA's), (15, 28785), (16, 28812), (20, 28866), (28, 28980),

Gene: Carcharodon_40 Start: 29955, Stop: 30341, Start Num: 9
Candidate Starts for Carcharodon_40:
(Start: 5 @29823 has 1 MA's), (Start: 9 @29955 has 27 MA's), (15, 30093), (16, 30120), (28, 30246),

Gene: Charlie_39 Start: 28646, Stop: 29074, Start Num: 9
Candidate Starts for Charlie_39:
(Start: 5 @28514 has 1 MA's), (Start: 9 @28646 has 27 MA's), (14, 28781), (16, 28811), (20, 28865), (28, 28979),

Gene: Chewbacca_42 Start: 29955, Stop: 30341, Start Num: 9
Candidate Starts for Chewbacca_42:
(Start: 5 @29823 has 1 MA's), (Start: 9 @29955 has 27 MA's), (15, 30093), (16, 30120), (28, 30246),

Gene: Cubone_41 Start: 28668, Stop: 29096, Start Num: 9
Candidate Starts for Cubone_41:
(Start: 5 @28536 has 1 MA's), (Start: 9 @28668 has 27 MA's), (14, 28803), (16, 28833), (20, 28887), (28, 29001),

Gene: Duplicity_40 Start: 29964, Stop: 30350, Start Num: 9
Candidate Starts for Duplicity_40:
(Start: 5 @29832 has 1 MA's), (Start: 9 @29964 has 27 MA's), (15, 30102), (16, 30129), (28, 30255),

Gene: EGUnicorn_39 Start: 28665, Stop: 29120, Start Num: 9
Candidate Starts for EGUnicorn_39:
(3, 28488), (6, 28551), (7, 28557), (Start: 9 @28665 has 27 MA's), (11, 28701), (12, 28719), (13, 28731), (16, 28857), (20, 28911), (28, 29025),

Gene: Frankie_57 Start: 38804, Stop: 39259, Start Num: 9
Candidate Starts for Frankie_57:
(8, 38789), (Start: 9 @38804 has 27 MA's), (11, 38840), (12, 38858), (13, 38870), (15, 38969), (16, 38996), (20, 39050), (28, 39164),

Gene: Fulbright_39 Start: 28912, Stop: 29430, Start Num: 5
Candidate Starts for Fulbright_39:
(Start: 5 @28912 has 1 MA's), (Start: 9 @29044 has 27 MA's), (15, 29182), (16, 29209), (28, 29335),

Gene: Gex_40 Start: 29971, Stop: 30357, Start Num: 9
Candidate Starts for Gex_40:
(Start: 5 @29839 has 1 MA's), (Start: 9 @29971 has 27 MA's), (15, 30109), (16, 30136), (28, 30262),

Gene: Hanako_42 Start: 30202, Stop: 30669, Start Num: 10
Candidate Starts for Hanako_42:

(1, 29848), (4, 30037), (Start: 10 @30202 has 10 MA's), (19, 30412), (25, 30439), (26, 30457), (30, 30580),

Gene: Impisi_44 Start: 30758, Stop: 31165, Start Num: 10
Candidate Starts for Impisi_44:
(1, 30404), (2, 30464), (4, 30593), (Start: 10 @30758 has 10 MA's), (17, 30923), (21, 30974), (22, 30986),

Gene: Jamie19_38 Start: 29043, Stop: 29537, Start Num: 9
Candidate Starts for Jamie19_38:
(3, 28866), (6, 28929), (7, 28935), (Start: 9 @29043 has 27 MA's), (15, 29181), (16, 29208), (18, 29229), (20, 29262), (23, 29283), (24, 29289), (26, 29346), (27, 29433), (29, 29448),

Gene: Journey_38 Start: 28646, Stop: 29074, Start Num: 9
Candidate Starts for Journey_38:
(Start: 5 @28514 has 1 MA's), (Start: 9 @28646 has 27 MA's), (14, 28781), (16, 28811), (20, 28865), (28, 28979),

Gene: Magsby_40 Start: 29972, Stop: 30358, Start Num: 9
Candidate Starts for Magsby_40:
(Start: 5 @29840 has 1 MA's), (Start: 9 @29972 has 27 MA's), (15, 30110), (16, 30137), (28, 30263),

Gene: Melville_43 Start: 29956, Stop: 30342, Start Num: 9
Candidate Starts for Melville_43:
(Start: 5 @29824 has 1 MA's), (Start: 9 @29956 has 27 MA's), (15, 30094), (16, 30121), (28, 30247),

Gene: Nenae_42 Start: 30205, Stop: 30672, Start Num: 10
Candidate Starts for Nenae_42:
(1, 29851), (4, 30040), (Start: 10 @30205 has 10 MA's), (19, 30415), (25, 30442), (26, 30460), (30, 30583),

Gene: Panchino_37 Start: 30389, Stop: 30883, Start Num: 9
Candidate Starts for Panchino_37:
(3, 30212), (6, 30275), (7, 30281), (Start: 9 @30389 has 27 MA's), (15, 30527), (16, 30554), (18, 30575), (20, 30608), (23, 30629), (24, 30635), (26, 30692), (27, 30779), (29, 30794),

Gene: Parmesanjohn_40 Start: 29975, Stop: 30361, Start Num: 9
Candidate Starts for Parmesanjohn_40:
(Start: 5 @29843 has 1 MA's), (Start: 9 @29975 has 27 MA's), (15, 30113), (16, 30140), (28, 30266),

Gene: PhancyPhin_42 Start: 30199, Stop: 30666, Start Num: 10
Candidate Starts for PhancyPhin_42:
(1, 29845), (4, 30034), (Start: 10 @30199 has 10 MA's), (19, 30409), (25, 30436), (26, 30454), (30, 30577),

Gene: Phloss_38 Start: 29382, Stop: 29768, Start Num: 9
Candidate Starts for Phloss_38:
(Start: 5 @29250 has 1 MA's), (Start: 9 @29382 has 27 MA's), (15, 29520), (16, 29547), (28, 29673),

Gene: Phrann_42 Start: 31069, Stop: 31563, Start Num: 9
Candidate Starts for Phrann_42:
(3, 30892), (6, 30955), (7, 30961), (Start: 9 @31069 has 27 MA's), (15, 31207), (16, 31234), (18, 31255), (20, 31288), (23, 31309), (24, 31315), (26, 31372), (27, 31459), (29, 31474),

Gene: Pipsqueaks_40 Start: 29952, Stop: 30338, Start Num: 9
Candidate Starts for Pipsqueaks_40:
(Start: 5 @29820 has 1 MA's), (Start: 9 @29952 has 27 MA's), (15, 30090), (16, 30117), (28, 30243),

Gene: Purgamenstris_42 Start: 30203, Stop: 30670, Start Num: 10
Candidate Starts for Purgamenstris_42:
(1, 29849), (4, 30038), (Start: 10 @30203 has 10 MA's), (19, 30413), (25, 30440), (26, 30458), (30, 30581),

Gene: Raymond7_36 Start: 30015, Stop: 30482, Start Num: 10
Candidate Starts for Raymond7_36:
(1, 29661), (2, 29721), (4, 29850), (Start: 10 @30015 has 10 MA's), (19, 30225), (25, 30252), (26, 30270), (30, 30393),

Gene: Rebel_34 Start: 26333, Stop: 26800, Start Num: 10
Candidate Starts for Rebel_34:
(1, 25979), (4, 26168), (Start: 10 @26333 has 10 MA's), (19, 26543), (25, 26570), (26, 26588), (30, 26711),

Gene: Redi_42 Start: 30202, Stop: 30669, Start Num: 10
Candidate Starts for Redi_42:
(1, 29848), (4, 30037), (Start: 10 @30202 has 10 MA's), (19, 30412), (25, 30439), (26, 30457), (30, 30580),

Gene: Schnauzer_41 Start: 29975, Stop: 30361, Start Num: 9
Candidate Starts for Schnauzer_41:
(Start: 5 @29843 has 1 MA's), (Start: 9 @29975 has 27 MA's), (15, 30113), (16, 30140), (28, 30266),

Gene: ShrimpFriedEgg_42 Start: 30202, Stop: 30669, Start Num: 10
Candidate Starts for ShrimpFriedEgg_42:
(1, 29848), (4, 30037), (Start: 10 @30202 has 10 MA's), (19, 30412), (25, 30439), (26, 30457), (30, 30580),

Gene: Shweta_38 Start: 29173, Stop: 29667, Start Num: 9
Candidate Starts for Shweta_38:
(3, 28996), (6, 29059), (7, 29065), (Start: 9 @29173 has 27 MA's), (15, 29311), (16, 29338), (18, 29359), (20, 29392), (23, 29413), (24, 29419), (26, 29476), (27, 29563), (29, 29578),

Gene: Silvafighter_41 Start: 29948, Stop: 30334, Start Num: 9
Candidate Starts for Silvafighter_41:
(Start: 5 @29816 has 1 MA's), (Start: 9 @29948 has 27 MA's), (15, 30086), (16, 30113), (28, 30239),

Gene: Smurph_40 Start: 29975, Stop: 30361, Start Num: 9
Candidate Starts for Smurph_40:
(Start: 5 @29843 has 1 MA's), (Start: 9 @29975 has 27 MA's), (15, 30113), (16, 30140), (28, 30266),

Gene: Snekmaggedon_38 Start: 29043, Stop: 29537, Start Num: 9
Candidate Starts for Snekmaggedon_38:
(3, 28866), (6, 28929), (7, 28935), (Start: 9 @29043 has 27 MA's), (15, 29181), (16, 29208), (18, 29229), (20, 29262), (23, 29283), (24, 29289), (26, 29346), (27, 29433), (29, 29448),

Gene: Spinach_42 Start: 30202, Stop: 30669, Start Num: 10

Candidate Starts for Spinach_42:
(1, 29848), (4, 30037), (Start: 10 @30202 has 10 MA's), (19, 30412), (25, 30439), (26, 30457), (30, 30580),

Gene: SpongeBob_38 Start: 29043, Stop: 29537, Start Num: 9
Candidate Starts for SpongeBob_38:
(3, 28866), (6, 28929), (7, 28935), (Start: 9 @29043 has 27 MA's), (15, 29181), (16, 29208), (18, 29229), (20, 29262), (23, 29283), (24, 29289), (26, 29346), (27, 29433), (29, 29448),

Gene: Tapioca_42 Start: 29941, Stop: 30327, Start Num: 9
Candidate Starts for Tapioca_42:
(Start: 5 @29809 has 1 MA's), (Start: 9 @29941 has 27 MA's), (15, 30079), (16, 30106), (28, 30232),

Gene: Tessdabest_41 Start: 29972, Stop: 30358, Start Num: 9
Candidate Starts for Tessdabest_41:
(Start: 5 @29840 has 1 MA's), (Start: 9 @29972 has 27 MA's), (15, 30110), (16, 30137), (28, 30263),

Gene: Tortoise12_39 Start: 28658, Stop: 29044, Start Num: 9
Candidate Starts for Tortoise12_39:
(Start: 5 @28526 has 1 MA's), (Start: 9 @28658 has 27 MA's), (15, 28796), (16, 28823), (28, 28949),

Gene: Xerxes_40 Start: 29972, Stop: 30358, Start Num: 9
Candidate Starts for Xerxes_40:
(Start: 5 @29840 has 1 MA's), (Start: 9 @29972 has 27 MA's), (15, 30110), (16, 30137), (28, 30263),