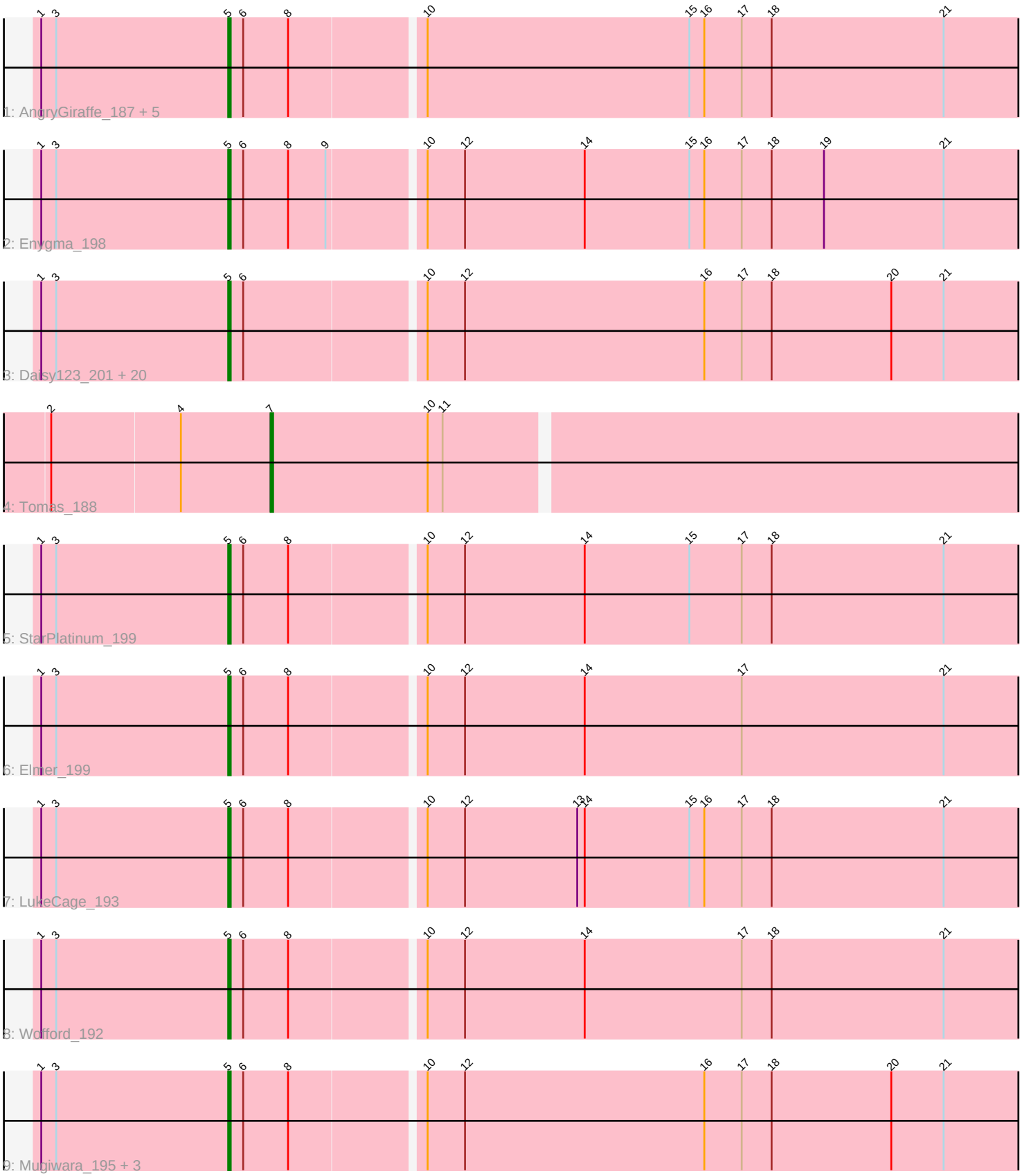
Pham 308924


1 3 5 6 8 10 15 16 17 18 21
1: AngryGiraffe_187 + 5
1 3 5 6 8 9 10 12 14 15 16 17 18 19 21
2: Enygma_198
1 3 5 6 10 12 16 17 18 20 21
3: Daisy123_201 + 20
2 4 7 10 11
4: Tomas_188
1 3 5 6 8 10 12 14 15 17 18 21
5: StarPlatinum_199
1 3 5 6 8 10 12 14 17 21
6: Elmer_199
1 3 5 6 8 10 12 13 14 15 16 17 18 21
7: LukeCage_193
1 3 5 6 8 10 12 14 17 18 21
8: Wofford_192
1 3 5 6 8 10 12 16 17 18 20 21
9: Mugiwara_195 + 3

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 308924 Report

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

Pham number 308924 has 37 members, 3 are drafts.

Phages represented in each track:
• Track 1 : AngryGiraffe_187, Yaboi_192, Sollertia_189, Genie2_188, BoomerJR_188, Stanimal_188
• Track 2 : Enygma_198
• Track 3 : Daisy123_201, Quaran19_193, Rikishi_193, Gibbi_201, Battuta_191, JimJam_200, MindFlayer_186, Jollison_190, Bordeaux_192, IchabodCrane_189, Spelly_196, CeilingFan_197, AcciDwight_201, PumpkinSpice_195, Wipeout_185, KentuckyRacer_199, Amabiko_197, SaltySpitoon_192, Birchlyn_192, TomSawyer_198, Starbow_191
• Track 4 : Tomas_188
• Track 5 : StarPlatinum_199
• Track 6 : Elmer_199
• Track 7 : LukeCage_193
• Track 8 : Wofford_192
• Track 9 : Mugiwara_195, Karimac_193, Brizzy_193, Spilled_199

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 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AcciDwight_201, Amabiko_197, AngryGiraffe_187, Battuta_191, Birchlyn_192, BoomerJR_188, Bordeaux_192, Brizzy_193, CeilingFan_197, Daisy123_201, Elmer_199, Enygma_198, Genie2_188, Gibbi_201, IchabodCrane_189, JimJam_200, Jollison_190, Karimac_193, KentuckyRacer_199, LukeCage_193, MindFlayer_186, Mugiwara_195, PumpkinSpice_195, Quaran19_193, Rikishi_193, SaltySpitoon_192, Sollertia_189, Spelly_196, Spilled_199, Stanimal_188, StarPlatinum_199, Starbow_191, TomSawyer_198, Wipeout_185, Wofford_192, Yaboi_192,

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

Genes that do not have the "Most Annotated" start:
• Tomas_188,

Summary by start number:

Start 5:
• Found in 36 of 37 (97.3%) of genes in pham
• Manual Annotations of this start: 33 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AcciDwight_201 (BE2), Amabiko_197 (BE2), AngryGiraffe_187 (BE2), Battuta_191 (BE2), Birchlyn_192 (BE2), BoomerJR_188 (BE2), Bordeaux_192 (BE2), Brizzy_193 (BE2), CeilingFan_197 (BE2), Daisy123_201 (BE2), Elmer_199 (BE2), Enygma_198 (BE2), Genie2_188 (BE2), Gibbi_201 (BE2), IchabodCrane_189 (BE2), JimJam_200 (BE2), Jollison_190 (BE2), Karimac_193 (BE2), KentuckyRacer_199 (BE2), LukeCage_193 (BE2), MindFlayer_186 (BE2), Mugiwara_195 (BE2), PumpkinSpice_195 (BE2), Quaran19_193 (BE2), Rikishi_193 (BE2), SaltySpitoon_192 (BE2), Sollertia_189 (BE2), Spelly_196 (BE2), Spilled_199 (BE2), Stanimal_188 (BE2), StarPlatinum_199 (BE2), Starbow_191 (BE2), TomSawyer_198 (BE2), Wipeout_185 (BE2), Wofford_192 (BE2), Yaboi_192 (BE2),

Start 7:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tomas_188 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:
•Start number 5 was manually annotated 33 times for cluster BE2.
•Start number 7 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: AcciDwight_201 Start: 98199, Stop: 98513, Start Num: 5
Candidate Starts for AcciDwight_201:
(1, 98124), (3, 98130), (Start: 5 @98199 has 33 MA's), (6, 98205), (10, 98274), (12, 98289), (16, 98385), (17, 98400), (18, 98412), (20, 98460), (21, 98481),

Gene: Amabiko_197 Start: 98017, Stop: 98331, Start Num: 5
Candidate Starts for Amabiko_197:
(1, 97942), (3, 97948), (Start: 5 @98017 has 33 MA's), (6, 98023), (10, 98092), (12, 98107), (16, 98203), (17, 98218), (18, 98230), (20, 98278), (21, 98299),

Gene: AngryGiraffe_187 Start: 96876, Stop: 97190, Start Num: 5
Candidate Starts for AngryGiraffe_187:
(1, 96801), (3, 96807), (Start: 5 @96876 has 33 MA's), (6, 96882), (8, 96900), (10, 96951), (15, 97056), (16, 97062), (17, 97077), (18, 97089), (21, 97158),

Gene: Battuta_191 Start: 97333, Stop: 97647, Start Num: 5

Candidate Starts for Battuta_191:
(1, 97258), (3, 97264), (Start: 5 @97333 has 33 MA's), (6, 97339), (10, 97408), (12, 97423), (16, 97519), (17, 97534), (18, 97546), (20, 97594), (21, 97615),

Gene: Birchlyn_192 Start: 95265, Stop: 95579, Start Num: 5
Candidate Starts for Birchlyn_192:
(1, 95190), (3, 95196), (Start: 5 @95265 has 33 MA's), (6, 95271), (10, 95340), (12, 95355), (16, 95451), (17, 95466), (18, 95478), (20, 95526), (21, 95547),

Gene: BoomerJR_188 Start: 97309, Stop: 97623, Start Num: 5
Candidate Starts for BoomerJR_188:
(1, 97234), (3, 97240), (Start: 5 @97309 has 33 MA's), (6, 97315), (8, 97333), (10, 97384), (15, 97489), (16, 97495), (17, 97510), (18, 97522), (21, 97591),

Gene: Bordeaux_192 Start: 97916, Stop: 98230, Start Num: 5
Candidate Starts for Bordeaux_192:
(1, 97841), (3, 97847), (Start: 5 @97916 has 33 MA's), (6, 97922), (10, 97991), (12, 98006), (16, 98102), (17, 98117), (18, 98129), (20, 98177), (21, 98198),

Gene: Brizzy_193 Start: 98461, Stop: 98775, Start Num: 5
Candidate Starts for Brizzy_193:
(1, 98386), (3, 98392), (Start: 5 @98461 has 33 MA's), (6, 98467), (8, 98485), (10, 98536), (12, 98551), (16, 98647), (17, 98662), (18, 98674), (20, 98722), (21, 98743),

Gene: CeilingFan_197 Start: 98710, Stop: 99024, Start Num: 5
Candidate Starts for CeilingFan_197:
(1, 98635), (3, 98641), (Start: 5 @98710 has 33 MA's), (6, 98716), (10, 98785), (12, 98800), (16, 98896), (17, 98911), (18, 98923), (20, 98971), (21, 98992),

Gene: Daisy123_201 Start: 98572, Stop: 98886, Start Num: 5
Candidate Starts for Daisy123_201:
(1, 98497), (3, 98503), (Start: 5 @98572 has 33 MA's), (6, 98578), (10, 98647), (12, 98662), (16, 98758), (17, 98773), (18, 98785), (20, 98833), (21, 98854),

Gene: Elmer_199 Start: 100816, Stop: 101130, Start Num: 5
Candidate Starts for Elmer_199:
(1, 100741), (3, 100747), (Start: 5 @100816 has 33 MA's), (6, 100822), (8, 100840), (10, 100891), (12, 100906), (14, 100954), (17, 101017), (21, 101098),

Gene: Enygma_198 Start: 100547, Stop: 100861, Start Num: 5
Candidate Starts for Enygma_198:
(1, 100472), (3, 100478), (Start: 5 @100547 has 33 MA's), (6, 100553), (8, 100571), (9, 100586), (10, 100622), (12, 100637), (14, 100685), (15, 100727), (16, 100733), (17, 100748), (18, 100760), (19, 100781), (21, 100829),

Gene: Genie2_188 Start: 97423, Stop: 97737, Start Num: 5
Candidate Starts for Genie2_188:
(1, 97348), (3, 97354), (Start: 5 @97423 has 33 MA's), (6, 97429), (8, 97447), (10, 97498), (15, 97603), (16, 97609), (17, 97624), (18, 97636), (21, 97705),

Gene: Gibbi_201 Start: 98203, Stop: 98517, Start Num: 5
Candidate Starts for Gibbi_201:

(1, 98128), (3, 98134), (Start: 5 @98203 has 33 MA's), (6, 98209), (10, 98278), (12, 98293), (16, 98389), (17, 98404), (18, 98416), (20, 98464), (21, 98485),

Gene: IchabodCrane_189 Start: 97718, Stop: 98032, Start Num: 5
Candidate Starts for IchabodCrane_189:
(1, 97643), (3, 97649), (Start: 5 @97718 has 33 MA's), (6, 97724), (10, 97793), (12, 97808), (16, 97904), (17, 97919), (18, 97931), (20, 97979), (21, 98000),

Gene: JimJam_200 Start: 99639, Stop: 99953, Start Num: 5
Candidate Starts for JimJam_200:
(1, 99564), (3, 99570), (Start: 5 @99639 has 33 MA's), (6, 99645), (10, 99714), (12, 99729), (16, 99825), (17, 99840), (18, 99852), (20, 99900), (21, 99921),

Gene: Jollison_190 Start: 97849, Stop: 98163, Start Num: 5
Candidate Starts for Jollison_190:
(1, 97774), (3, 97780), (Start: 5 @97849 has 33 MA's), (6, 97855), (10, 97924), (12, 97939), (16, 98035), (17, 98050), (18, 98062), (20, 98110), (21, 98131),

Gene: Karimac_193 Start: 98043, Stop: 98357, Start Num: 5
Candidate Starts for Karimac_193:
(1, 97968), (3, 97974), (Start: 5 @98043 has 33 MA's), (6, 98049), (8, 98067), (10, 98118), (12, 98133), (16, 98229), (17, 98244), (18, 98256), (20, 98304), (21, 98325),

Gene: KentuckyRacer_199 Start: 99554, Stop: 99868, Start Num: 5
Candidate Starts for KentuckyRacer_199:
(1, 99479), (3, 99485), (Start: 5 @99554 has 33 MA's), (6, 99560), (10, 99629), (12, 99644), (16, 99740), (17, 99755), (18, 99767), (20, 99815), (21, 99836),

Gene: LukeCage_193 Start: 98973, Stop: 99287, Start Num: 5
Candidate Starts for LukeCage_193:
(1, 98898), (3, 98904), (Start: 5 @98973 has 33 MA's), (6, 98979), (8, 98997), (10, 99048), (12, 99063), (13, 99108), (14, 99111), (15, 99153), (16, 99159), (17, 99174), (18, 99186), (21, 99255),

Gene: MindFlayer_186 Start: 97234, Stop: 97548, Start Num: 5
Candidate Starts for MindFlayer_186:
(1, 97159), (3, 97165), (Start: 5 @97234 has 33 MA's), (6, 97240), (10, 97309), (12, 97324), (16, 97420), (17, 97435), (18, 97447), (20, 97495), (21, 97516),

Gene: Mugiwara_195 Start: 99376, Stop: 99690, Start Num: 5
Candidate Starts for Mugiwara_195:
(1, 99301), (3, 99307), (Start: 5 @99376 has 33 MA's), (6, 99382), (8, 99400), (10, 99451), (12, 99466), (16, 99562), (17, 99577), (18, 99589), (20, 99637), (21, 99658),

Gene: PumpkinSpice_195 Start: 98455, Stop: 98769, Start Num: 5
Candidate Starts for PumpkinSpice_195:
(1, 98380), (3, 98386), (Start: 5 @98455 has 33 MA's), (6, 98461), (10, 98530), (12, 98545), (16, 98641), (17, 98656), (18, 98668), (20, 98716), (21, 98737),

Gene: Quaran19_193 Start: 97896, Stop: 98210, Start Num: 5
Candidate Starts for Quaran19_193:
(1, 97821), (3, 97827), (Start: 5 @97896 has 33 MA's), (6, 97902), (10, 97971), (12, 97986), (16, 98082), (17, 98097), (18, 98109), (20, 98157), (21, 98178),

Gene: Rikishi_193 Start: 98177, Stop: 98491, Start Num: 5
Candidate Starts for Rikishi_193:
(1, 98102), (3, 98108), (Start: 5 @98177 has 33 MA's), (6, 98183), (10, 98252), (12, 98267), (16, 98363), (17, 98378), (18, 98390), (20, 98438), (21, 98459),

Gene: SaltySpitoon_192 Start: 97438, Stop: 97752, Start Num: 5
Candidate Starts for SaltySpitoon_192:
(1, 97363), (3, 97369), (Start: 5 @97438 has 33 MA's), (6, 97444), (10, 97513), (12, 97528), (16, 97624), (17, 97639), (18, 97651), (20, 97699), (21, 97720),

Gene: Sollertia_189 Start: 97423, Stop: 97737, Start Num: 5
Candidate Starts for Sollertia_189:
(1, 97348), (3, 97354), (Start: 5 @97423 has 33 MA's), (6, 97429), (8, 97447), (10, 97498), (15, 97603), (16, 97609), (17, 97624), (18, 97636), (21, 97705),

Gene: Spelly_196 Start: 97367, Stop: 97681, Start Num: 5
Candidate Starts for Spelly_196:
(1, 97292), (3, 97298), (Start: 5 @97367 has 33 MA's), (6, 97373), (10, 97442), (12, 97457), (16, 97553), (17, 97568), (18, 97580), (20, 97628), (21, 97649),

Gene: Spilled_199 Start: 98571, Stop: 98885, Start Num: 5
Candidate Starts for Spilled_199:
(1, 98496), (3, 98502), (Start: 5 @98571 has 33 MA's), (6, 98577), (8, 98595), (10, 98646), (12, 98661), (16, 98757), (17, 98772), (18, 98784), (20, 98832), (21, 98853),

Gene: Stanimal_188 Start: 97784, Stop: 98098, Start Num: 5
Candidate Starts for Stanimal_188:
(1, 97709), (3, 97715), (Start: 5 @97784 has 33 MA's), (6, 97790), (8, 97808), (10, 97859), (15, 97964), (16, 97970), (17, 97985), (18, 97997), (21, 98066),

Gene: StarPlatinum_199 Start: 99840, Stop: 100154, Start Num: 5
Candidate Starts for StarPlatinum_199:
(1, 99765), (3, 99771), (Start: 5 @99840 has 33 MA's), (6, 99846), (8, 99864), (10, 99915), (12, 99930), (14, 99978), (15, 100020), (17, 100041), (18, 100053), (21, 100122),

Gene: Starbow_191 Start: 97411, Stop: 97725, Start Num: 5
Candidate Starts for Starbow_191:
(1, 97336), (3, 97342), (Start: 5 @97411 has 33 MA's), (6, 97417), (10, 97486), (12, 97501), (16, 97597), (17, 97612), (18, 97624), (20, 97672), (21, 97693),

Gene: TomSawyer_198 Start: 99882, Stop: 100196, Start Num: 5
Candidate Starts for TomSawyer_198:
(1, 99807), (3, 99813), (Start: 5 @99882 has 33 MA's), (6, 99888), (10, 99957), (12, 99972), (16, 100068), (17, 100083), (18, 100095), (20, 100143), (21, 100164),

Gene: Tomas_188 Start: 97609, Stop: 97905, Start Num: 7
Candidate Starts for Tomas_188:
(2, 97522), (4, 97573), (Start: 7 @97609 has 1 MA's), (10, 97672), (11, 97678),

Gene: Wipeout_185 Start: 98834, Stop: 99148, Start Num: 5
Candidate Starts for Wipeout_185:
(1, 98759), (3, 98765), (Start: 5 @98834 has 33 MA's), (6, 98840), (10, 98909), (12, 98924), (16, 99020), (17, 99035), (18, 99047), (20, 99095), (21, 99116),

Gene: Wofford_192 Start: 100776, Stop: 101090, Start Num: 5
Candidate Starts for Wofford_192:
(1, 100701), (3, 100707), (Start: 5 @100776 has 33 MA's), (6, 100782), (8, 100800), (10, 100851), (12, 100866), (14, 100914), (17, 100977), (18, 100989), (21, 101058),

Gene: Yaboi_192 Start: 97358, Stop: 97672, Start Num: 5
Candidate Starts for Yaboi_192:
(1, 97283), (3, 97289), (Start: 5 @97358 has 33 MA's), (6, 97364), (8, 97382), (10, 97433), (15, 97538), (16, 97544), (17, 97559), (18, 97571), (21, 97640),