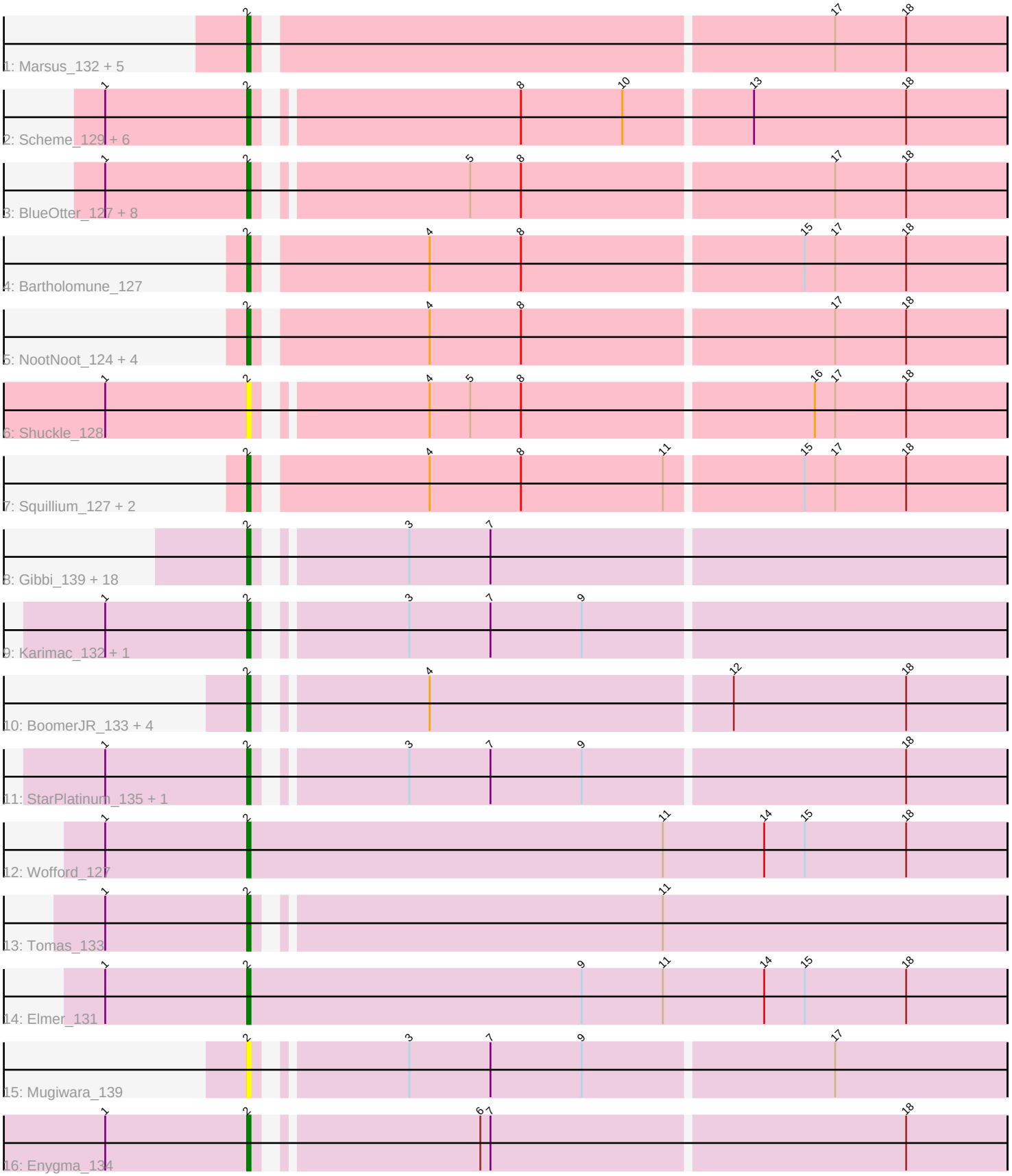
Pham 200257


1: Marsus_132 + 5
2: Scheme_129 + 6
3: BlueOtter_127 + 8
4: Bartholomune_127
5: NootNoot_124 + 4
6: Shuckle_128
7: Squillium_127 + 2
8: Gibbi_139 + 18
9: Karimac_132 + 1
10: BoomerJR_133 + 4
11: StarPlatinum_135 + 1
12: Wofford_127
13: Tomas_133
14: Elmer_131
15: Mugiwara_139
16: Enygma_134

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 200257 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200257 has 65 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Marsus_132, Angela_128, Anedea_132, MulchMansion_127, LilMartin_127, Bmoc_131
• Track 2 : Scheme_129, Peebs_126, Sushi23_127, Pepperwood_127, Tribute_127, Samisti12_129, Larnav_128
• Track 3 : BlueOtter_127, Leo04_129, PacManQ_127, Lululemon_127, Cursive_126, Teutsch_127, Cross_128, Watermoore_127, HangryHippo_127
• Track 4 : Bartholomune_127
• Track 5 : NootNoot_124, Persimmon_127, Braelyn_128, Navo_125, WhereRU_126
• Track 6 : Shuckle_128
• Track 7 : Squillium_127, PinkiePie_124, Liandry_127
• Track 8 : Gibbi_139, CeilingFan_139, JimJam_136, Jollison_132, SaltySpitoon_133, Rikishi_137, IchabodCrane_128, TomSawyer_134, Amabiko_134, PumpkinSpice_135, Spelly_135, Bordeaux_132, KentuckyRacer_135, Quaran19_133, Birchlyn_132, Battuta_132, Wipeout_127, MindFlayer_129, Starbow_131
• Track 9 : Karimac_132, Spilled_136
• Track 10 : BoomerJR_133, Genie2_133, Yaboi_132, Stanimal_131, Sollertia_132
• Track 11 : StarPlatinum_135, LukeCage_132
• Track 12 : Wofford_127
• Track 13 : Tomas_133
• Track 14 : Elmer_131
• Track 15 : Mugiwara_139
• Track 16 : Enygma_134

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

The start number called the most often in the published annotations is 2, it was called in 58 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_134, Anedea_132, Angela_128, Bartholomune_127, Battuta_132, Birchlyn_132, BlueOtter_127, Bmoc_131, BoomerJR_133, Bordeaux_132, Braelyn_128, CeilingFan_139, Cross_128, Cursive_126, Elmer_131, Enygma_134, Genie2_133, Gibbi_139, HangryHippo_127, IchabodCrane_128, JimJam_136,

Jollison_132, Karimac_132, KentuckyRacer_135, Larnav_128, Leo04_129, Liandry_127, LilMartin_127, LukeCage_132, Lululemon_127, Marsus_132, MindFlayer_129, Mugiwara_139, MulchMansion_127, Navo_125, NootNoot_124, PacManQ_127, Peebs_126, Pepperwood_127, Persimmon_127, PinkiePie_124, PumpkinSpice_135, Quaran19_133, Rikishi_137, SaltySpitoon_133, Samisti12_129, Scheme_129, Shuckle_128, Sollertia_132, Spelly_135, Spilled_136, Squillium_127, Stanimal_131, StarPlatinum_135, Starbow_131, Sushi23_127, Teutsch_127, TomSawyer_134, Tomas_133, Tribute_127, Watermoore_127, WhereRU_126, Wipeout_127, Wofford_127, Yaboi_132,

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

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

Summary by start number:

Start 2:
• Found in 65 of 65 (100.0%) of genes in pham
• Manual Annotations of this start: 58 of 58
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amabiko_134 (BE2), Anedea_132 (BE1), Angela_128 (BE1), Bartholomune_127 (BE1), Battuta_132 (BE2), Birchlyn_132 (BE2), BlueOtter_127 (BE1), Bmoc_131 (BE1), BoomerJR_133 (BE2), Bordeaux_132 (BE2), Braelyn_128 (BE1), CeilingFan_139 (BE2), Cross_128 (BE1), Cursive_126 (BE1), Elmer_131 (BE2), Enygma_134 (BE2), Genie2_133 (BE2), Gibbi_139 (BE2), HangryHippo_127 (BE1), IchabodCrane_128 (BE2), JimJam_136 (BE2), Jollison_132 (BE2), Karimac_132 (BE2), KentuckyRacer_135 (BE2), Larnav_128 (BE1), Leo04_129 (BE1), Liandry_127 (BE1), LilMartin_127 (BE1), LukeCage_132 (BE2), Lululemon_127 (BE1), Marsus_132 (BE1), MindFlayer_129 (BE2), Mugiwara_139 (BE2), MulchMansion_127 (BE1), Navo_125 (BE1), NootNoot_124 (BE1), PacManQ_127 (BE1), Peebs_126 (BE1), Pepperwood_127 (BE1), Persimmon_127 (BE1), PinkiePie_124 (BE1), PumpkinSpice_135 (BE2), Quaran19_133 (BE2), Rikishi_137 (BE2), SaltySpitoon_133 (BE2), Samisti12_129 (BE1), Scheme_129 (BE1), Shuckle_128 (BE1), Sollertia_132 (BE2), Spelly_135 (BE2), Spilled_136 (BE2), Squillium_127 (BE1), Stanimal_131 (BE2), StarPlatinum_135 (BE2), Starbow_131 (BE2), Sushi23_127 (BE1), Teutsch_127 (BE1), TomSawyer_134 (BE2), Tomas_133 (BE2), Tribute_127 (BE1), Watermoore_127 (BE1), WhereRU_126 (BE1), Wipeout_127 (BE2), Wofford_127 (BE2), Yaboi_132 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 2 was manually annotated 29 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 2 was manually annotated 29 times for cluster BE2.

Gene Information:

Gene: Amabiko_134 Start: 82699, Stop: 82911, Start Num: 2
Candidate Starts for Amabiko_134:
(Start: 2 @82699 has 58 MA's), (3, 82738), (7, 82762),

Gene: Anedea_132 Start: 82693, Stop: 82908, Start Num: 2
Candidate Starts for Anedea_132:
(Start: 2 @82693 has 58 MA's), (17, 82858), (18, 82879),

Gene: Angela_128 Start: 82343, Stop: 82558, Start Num: 2
Candidate Starts for Angela_128:
(Start: 2 @82343 has 58 MA's), (17, 82508), (18, 82529),

Gene: Bartholomune_127 Start: 82128, Stop: 82343, Start Num: 2
Candidate Starts for Bartholomune_127:
(Start: 2 @82128 has 58 MA's), (4, 82176), (8, 82203), (15, 82284), (17, 82293), (18, 82314),

Gene: Battuta_132 Start: 82672, Stop: 82884, Start Num: 2
Candidate Starts for Battuta_132:
(Start: 2 @82672 has 58 MA's), (3, 82711), (7, 82735),

Gene: Birchlyn_132 Start: 80559, Stop: 80771, Start Num: 2
Candidate Starts for Birchlyn_132:
(Start: 2 @80559 has 58 MA's), (3, 80598), (7, 80622),

Gene: BlueOtter_127 Start: 84382, Stop: 84594, Start Num: 2
Candidate Starts for BlueOtter_127:
(1, 84340), (Start: 2 @84382 has 58 MA's), (5, 84439), (8, 84454), (17, 84544), (18, 84565),

Gene: Bmoc_131 Start: 82638, Stop: 82853, Start Num: 2
Candidate Starts for Bmoc_131:
(Start: 2 @82638 has 58 MA's), (17, 82803), (18, 82824),

Gene: BoomerJR_133 Start: 83002, Stop: 83214, Start Num: 2
Candidate Starts for BoomerJR_133:
(Start: 2 @83002 has 58 MA's), (4, 83047), (12, 83134), (18, 83185),

Gene: Bordeaux_132 Start: 82827, Stop: 83039, Start Num: 2
Candidate Starts for Bordeaux_132:
(Start: 2 @82827 has 58 MA's), (3, 82866), (7, 82890),

Gene: Braelyn_128 Start: 83014, Stop: 83229, Start Num: 2
Candidate Starts for Braelyn_128:
(Start: 2 @83014 has 58 MA's), (4, 83062), (8, 83089), (17, 83179), (18, 83200),

Gene: CeilingFan_139 Start: 82590, Stop: 82802, Start Num: 2
Candidate Starts for CeilingFan_139:
(Start: 2 @82590 has 58 MA's), (3, 82629), (7, 82653),

Gene: Cross_128 Start: 84383, Stop: 84595, Start Num: 2
Candidate Starts for Cross_128:
(1, 84341), (Start: 2 @84383 has 58 MA's), (5, 84440), (8, 84455), (17, 84545), (18, 84566),

Gene: Cursive_126 Start: 82592, Stop: 82804, Start Num: 2
Candidate Starts for Cursive_126:
(1, 82550), (Start: 2 @82592 has 58 MA's), (5, 82649), (8, 82664), (17, 82754), (18, 82775),

Gene: Elmer_131 Start: 83820, Stop: 84044, Start Num: 2
Candidate Starts for Elmer_131:
(1, 83778), (Start: 2 @83820 has 58 MA's), (9, 83919), (11, 83943), (14, 83973), (15, 83985), (18, 84015),

Gene: Enygma_134 Start: 84511, Stop: 84723, Start Num: 2
Candidate Starts for Enygma_134:
(1, 84469), (Start: 2 @84511 has 58 MA's), (6, 84571), (7, 84574), (18, 84694),

Gene: Genie2_133 Start: 83116, Stop: 83328, Start Num: 2
Candidate Starts for Genie2_133:
(Start: 2 @83116 has 58 MA's), (4, 83161), (12, 83248), (18, 83299),

Gene: Gibbi_139 Start: 82811, Stop: 83023, Start Num: 2
Candidate Starts for Gibbi_139:
(Start: 2 @82811 has 58 MA's), (3, 82850), (7, 82874),

Gene: HangryHippo_127 Start: 84382, Stop: 84594, Start Num: 2
Candidate Starts for HangryHippo_127:
(1, 84340), (Start: 2 @84382 has 58 MA's), (5, 84439), (8, 84454), (17, 84544), (18, 84565),

Gene: IchabodCrane_128 Start: 82400, Stop: 82612, Start Num: 2
Candidate Starts for IchabodCrane_128:
(Start: 2 @82400 has 58 MA's), (3, 82439), (7, 82463),

Gene: JimJam_136 Start: 83221, Stop: 83433, Start Num: 2
Candidate Starts for JimJam_136:
(Start: 2 @83221 has 58 MA's), (3, 83260), (7, 83284),

Gene: Jollison_132 Start: 82655, Stop: 82867, Start Num: 2
Candidate Starts for Jollison_132:
(Start: 2 @82655 has 58 MA's), (3, 82694), (7, 82718),

Gene: Karimac_132 Start: 82938, Stop: 83150, Start Num: 2
Candidate Starts for Karimac_132:
(1, 82896), (Start: 2 @82938 has 58 MA's), (3, 82977), (7, 83001), (9, 83028),

Gene: KentuckyRacer_135 Start: 83086, Stop: 83298, Start Num: 2
Candidate Starts for KentuckyRacer_135:
(Start: 2 @83086 has 58 MA's), (3, 83125), (7, 83149),

Gene: Larnav_128 Start: 84366, Stop: 84578, Start Num: 2
Candidate Starts for Larnav_128:
(1, 84324), (Start: 2 @84366 has 58 MA's), (8, 84438), (10, 84468), (13, 84504), (18, 84549),

Gene: Leo04_129 Start: 84882, Stop: 85094, Start Num: 2
Candidate Starts for Leo04_129:
(1, 84840), (Start: 2 @84882 has 58 MA's), (5, 84939), (8, 84954), (17, 85044), (18, 85065),

Gene: Liandry_127 Start: 82871, Stop: 83086, Start Num: 2
Candidate Starts for Liandry_127:
(Start: 2 @82871 has 58 MA's), (4, 82919), (8, 82946), (11, 82988), (15, 83027), (17, 83036), (18, 83057),

Gene: LilMartin_127 Start: 82245, Stop: 82460, Start Num: 2
Candidate Starts for LilMartin_127:
(Start: 2 @82245 has 58 MA's), (17, 82410), (18, 82431),

Gene: LukeCage_132 Start: 83715, Stop: 83927, Start Num: 2
Candidate Starts for LukeCage_132:
(1, 83673), (Start: 2 @83715 has 58 MA's), (3, 83754), (7, 83778), (9, 83805), (18, 83898),

Gene: Lululemon_127 Start: 83763, Stop: 83975, Start Num: 2
Candidate Starts for Lululemon_127:
(1, 83721), (Start: 2 @83763 has 58 MA's), (5, 83820), (8, 83835), (17, 83925), (18, 83946),

Gene: Marsus_132 Start: 82338, Stop: 82553, Start Num: 2
Candidate Starts for Marsus_132:
(Start: 2 @82338 has 58 MA's), (17, 82503), (18, 82524),

Gene: MindFlayer_129 Start: 82307, Stop: 82519, Start Num: 2
Candidate Starts for MindFlayer_129:
(Start: 2 @82307 has 58 MA's), (3, 82346), (7, 82370),

Gene: Mugiwara_139 Start: 83548, Stop: 83760, Start Num: 2
Candidate Starts for Mugiwara_139:
(Start: 2 @83548 has 58 MA's), (3, 83587), (7, 83611), (9, 83638), (17, 83710),

Gene: MulchMansion_127 Start: 82291, Stop: 82506, Start Num: 2
Candidate Starts for MulchMansion_127:
(Start: 2 @82291 has 58 MA's), (17, 82456), (18, 82477),

Gene: Navo_125 Start: 82676, Stop: 82891, Start Num: 2
Candidate Starts for Navo_125:
(Start: 2 @82676 has 58 MA's), (4, 82724), (8, 82751), (17, 82841), (18, 82862),

Gene: NootNoot_124 Start: 81785, Stop: 82000, Start Num: 2
Candidate Starts for NootNoot_124:
(Start: 2 @81785 has 58 MA's), (4, 81833), (8, 81860), (17, 81950), (18, 81971),

Gene: PacManQ_127 Start: 83763, Stop: 83975, Start Num: 2
Candidate Starts for PacManQ_127:
(1, 83721), (Start: 2 @83763 has 58 MA's), (5, 83820), (8, 83835), (17, 83925), (18, 83946),

Gene: Peebs_126 Start: 84179, Stop: 84391, Start Num: 2
Candidate Starts for Peebs_126:
(1, 84137), (Start: 2 @84179 has 58 MA's), (8, 84251), (10, 84281), (13, 84317), (18, 84362),

Gene: Pepperwood_127 Start: 84309, Stop: 84521, Start Num: 2
Candidate Starts for Pepperwood_127:
(1, 84267), (Start: 2 @84309 has 58 MA's), (8, 84381), (10, 84411), (13, 84447), (18, 84492),

Gene: Persimmon_127 Start: 81719, Stop: 81934, Start Num: 2
Candidate Starts for Persimmon_127:
(Start: 2 @81719 has 58 MA's), (4, 81767), (8, 81794), (17, 81884), (18, 81905),

Gene: PinkiePie_124 Start: 82871, Stop: 83086, Start Num: 2
Candidate Starts for PinkiePie_124:
(Start: 2 @82871 has 58 MA's), (4, 82919), (8, 82946), (11, 82988), (15, 83027), (17, 83036), (18, 83057),

Gene: PumpkinSpice_135 Start: 83263, Stop: 83475, Start Num: 2
Candidate Starts for PumpkinSpice_135:
(Start: 2 @83263 has 58 MA's), (3, 83302), (7, 83326),

Gene: Quaran19_133 Start: 82689, Stop: 82901, Start Num: 2
Candidate Starts for Quaran19_133:
(Start: 2 @82689 has 58 MA's), (3, 82728), (7, 82752),

Gene: Rikishi_137 Start: 82605, Stop: 82817, Start Num: 2
Candidate Starts for Rikishi_137:
(Start: 2 @82605 has 58 MA's), (3, 82644), (7, 82668),

Gene: SaltySpitoon_133 Start: 82702, Stop: 82914, Start Num: 2
Candidate Starts for SaltySpitoon_133:
(Start: 2 @82702 has 58 MA's), (3, 82741), (7, 82765),

Gene: Samisti12_129 Start: 85558, Stop: 85770, Start Num: 2
Candidate Starts for Samisti12_129:
(1, 85516), (Start: 2 @85558 has 58 MA's), (8, 85630), (10, 85660), (13, 85696), (18, 85741),

Gene: Scheme_129 Start: 84964, Stop: 85176, Start Num: 2
Candidate Starts for Scheme_129:
(1, 84922), (Start: 2 @84964 has 58 MA's), (8, 85036), (10, 85066), (13, 85102), (18, 85147),

Gene: Shuckle_128 Start: 83413, Stop: 83625, Start Num: 2
Candidate Starts for Shuckle_128:
(1, 83371), (Start: 2 @83413 has 58 MA's), (4, 83458), (5, 83470), (8, 83485), (16, 83569), (17, 83575), (18, 83596),

Gene: Sollertia_132 Start: 83116, Stop: 83328, Start Num: 2
Candidate Starts for Sollertia_132:
(Start: 2 @83116 has 58 MA's), (4, 83161), (12, 83248), (18, 83299),

Gene: Spelly_135 Start: 82654, Stop: 82866, Start Num: 2
Candidate Starts for Spelly_135:
(Start: 2 @82654 has 58 MA's), (3, 82693), (7, 82717),

Gene: Spilled_136 Start: 82772, Stop: 82984, Start Num: 2
Candidate Starts for Spilled_136:
(1, 82730), (Start: 2 @82772 has 58 MA's), (3, 82811), (7, 82835), (9, 82862),

Gene: Squillium_127 Start: 82873, Stop: 83088, Start Num: 2
Candidate Starts for Squillium_127:

(Start: 2 @82873 has 58 MA's), (4, 82921), (8, 82948), (11, 82990), (15, 83029), (17, 83038), (18, 83059),

Gene: Stanimal_131 Start: 83005, Stop: 83217, Start Num: 2
Candidate Starts for Stanimal_131:
(Start: 2 @83005 has 58 MA's), (4, 83050), (12, 83137), (18, 83188),

Gene: StarPlatinum_135 Start: 83969, Stop: 84181, Start Num: 2
Candidate Starts for StarPlatinum_135:
(1, 83927), (Start: 2 @83969 has 58 MA's), (3, 84008), (7, 84032), (9, 84059), (18, 84152),

Gene: Starbow_131 Start: 82674, Stop: 82886, Start Num: 2
Candidate Starts for Starbow_131:
(Start: 2 @82674 has 58 MA's), (3, 82713), (7, 82737),

Gene: Sushi23_127 Start: 84535, Stop: 84747, Start Num: 2
Candidate Starts for Sushi23_127:
(1, 84493), (Start: 2 @84535 has 58 MA's), (8, 84607), (10, 84637), (13, 84673), (18, 84718),

Gene: Teutsch_127 Start: 84740, Stop: 84952, Start Num: 2
Candidate Starts for Teutsch_127:
(1, 84698), (Start: 2 @84740 has 58 MA's), (5, 84797), (8, 84812), (17, 84902), (18, 84923),

Gene: TomSawyer_134 Start: 82720, Stop: 82932, Start Num: 2
Candidate Starts for TomSawyer_134:
(Start: 2 @82720 has 58 MA's), (3, 82759), (7, 82783),

Gene: Tomas_133 Start: 85720, Stop: 85935, Start Num: 2
Candidate Starts for Tomas_133:
(1, 85678), (Start: 2 @85720 has 58 MA's), (11, 85834),

Gene: Tribute_127 Start: 84727, Stop: 84939, Start Num: 2
Candidate Starts for Tribute_127:
(1, 84685), (Start: 2 @84727 has 58 MA's), (8, 84799), (10, 84829), (13, 84865), (18, 84910),

Gene: Watermoore_127 Start: 84954, Stop: 85166, Start Num: 2
Candidate Starts for Watermoore_127:
(1, 84912), (Start: 2 @84954 has 58 MA's), (5, 85011), (8, 85026), (17, 85116), (18, 85137),

Gene: WhereRU_126 Start: 82471, Stop: 82686, Start Num: 2
Candidate Starts for WhereRU_126:
(Start: 2 @82471 has 58 MA's), (4, 82519), (8, 82546), (17, 82636), (18, 82657),

Gene: Wipeout_127 Start: 83044, Stop: 83256, Start Num: 2
Candidate Starts for Wipeout_127:
(Start: 2 @83044 has 58 MA's), (3, 83083), (7, 83107),

Gene: Wofford_127 Start: 83785, Stop: 84009, Start Num: 2
Candidate Starts for Wofford_127:
(1, 83743), (Start: 2 @83785 has 58 MA's), (11, 83908), (14, 83938), (15, 83950), (18, 83980),

Gene: Yaboi_132 Start: 82578, Stop: 82790, Start Num: 2
Candidate Starts for Yaboi_132:

(Start: 2 @82578 has 58 MA's), (4, 82623), (12, 82710), (18, 82761),