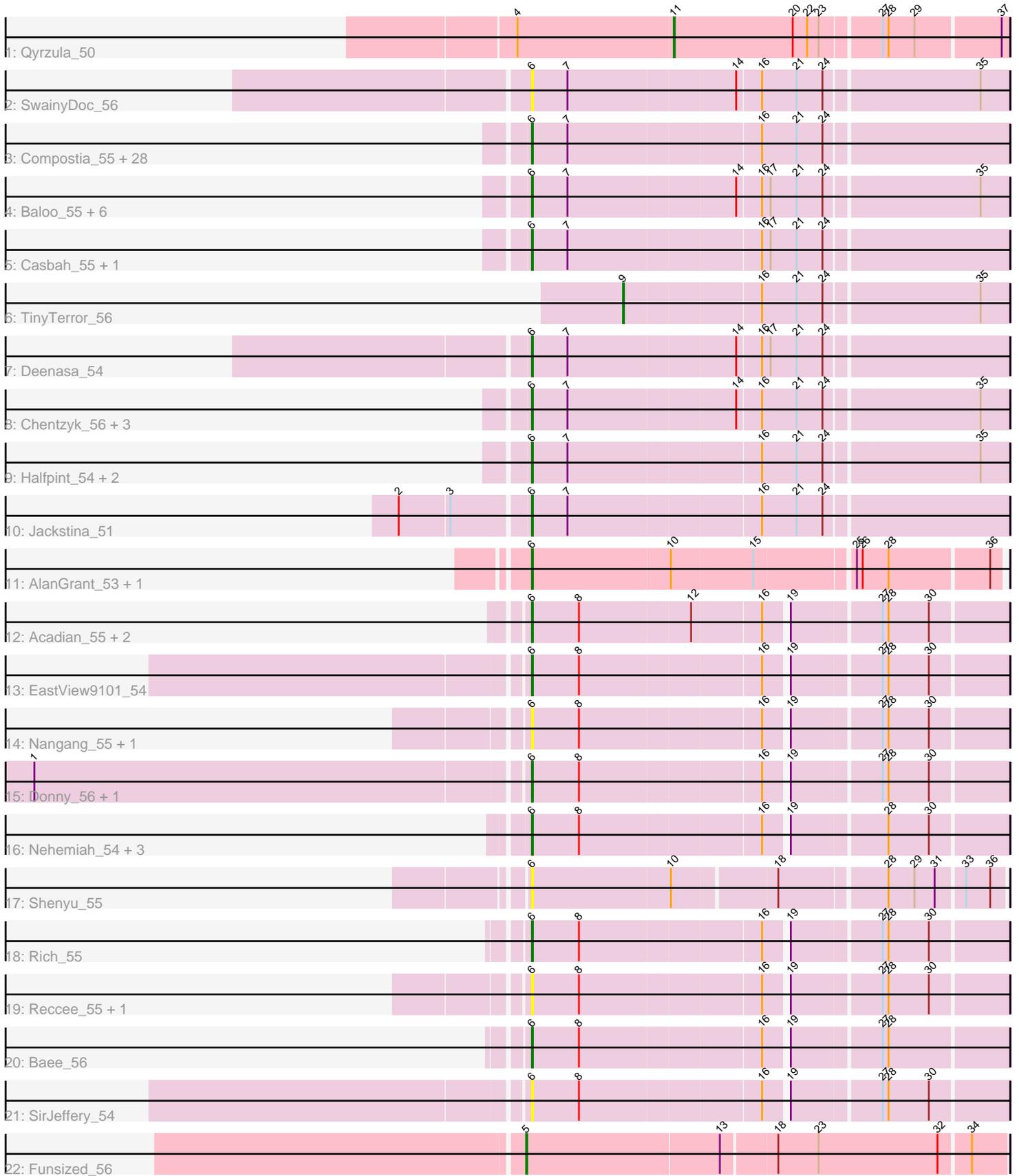


# Pham 291132



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 291132 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291132 has 71 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Qyrzula\_50
- Track 2 : SwainyDoc\_56
- Track 3 : Compostia\_55, OrangeOswald\_55, Corofin\_55, Athena\_57, Gervas\_56, Abinghost\_55, Chalmers\_54, Ben11\_55, Devonte\_54, HarveySr\_54, Marlia\_56, Kronus\_55, Glubnar\_56, Kamiyu\_55, SlippinJimmy\_57, Akoma\_55, LestyG\_54, Marley1013\_56, RomaT\_55, Nozo\_55, Yahalom\_54, Phlyer\_55, Obutu\_56, Morty007\_55, GlenHope\_56, Philly\_54, Mortcellus\_55, Rita1961\_56, Mulaychimus\_56
- Track 4 : Baloo\_55, Gadget\_56, Audrey\_55, ChaChing\_55, Heathcliff\_55, Yinz\_55, SynergyX\_55
- Track 5 : Casbah\_55, RagingRooster\_54
- Track 6 : TinyTerror\_56
- Track 7 : Deenasa\_54
- Track 8 : Chentzyk\_56, Olivio\_55, MmasiCarm\_56, Phayeta\_57
- Track 9 : Halfpint\_54, Bernardo\_56, Chandler\_55
- Track 10 : Jackstina\_51
- Track 11 : AlanGrant\_53, Vincenzo\_52
- Track 12 : Acadian\_55, KarasumaRum\_55, StinkyVeggy\_55
- Track 13 : EastView9101\_54
- Track 14 : Nangang\_55, DigitDog\_55
- Track 15 : Donny\_56, Suigeneris\_56
- Track 16 : Nehemiah\_54, Phelemich\_53, Mysterious\_53, Reprobate\_54
- Track 17 : Shenyu\_55
- Track 18 : Rich\_55
- Track 19 : Reccee\_55, Rita130\_54
- Track 20 : Bae\_56
- Track 21 : SirJeffery\_54
- Track 22 : Funsized\_56

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

The start number called the most often in the published annotations is 6, it was called in 54 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost\_55, Acadian\_55, Akoma\_55, AlanGrant\_53, Athena\_57, Audrey\_55, Bae\_56, Baloo\_55, Ben11\_55, Bernardo\_56, Casbah\_55, ChaChing\_55, Chalmers\_54, Chandler\_55, Chentzyk\_56, Compostia\_55, Corofin\_55, Deenasa\_54, Devonte\_54, DigitDog\_55, Donny\_56, EastView9101\_54, Gadget\_56, Gervas\_56, GlenHope\_56, Glubnar\_56, Halfpint\_54, HarveySr\_54, Heathcliff\_55, Jackstina\_51, Kamiyu\_55, KarasumaRum\_55, Kronus\_55, LestyG\_54, Marley1013\_56, Marlia\_56, MmasiCarm\_56, Mortcellus\_55, Morty007\_55, Mulaychimus\_56, Mysterious\_53, Nangang\_55, Nehemiah\_54, Nozo\_55, Obutu\_56, Olivio\_55, OrangeOswald\_55, Phayeta\_57, Phelemich\_53, Philly\_54, Phlyer\_55, RagingRooster\_54, Reccee\_55, Reprobate\_54, Rich\_55, Rita130\_54, Rita1961\_56, RomaT\_55, Shenyu\_55, SirJeffery\_54, SlippinJimmy\_57, StinkyVeggy\_55, Suigeneris\_56, SwainyDoc\_56, SynergyX\_55, Vincenzo\_52, Yahalom\_54, Yinz\_55,

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

- 

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

- Funsized\_56, Qyrzula\_50, TinyTerror\_56,

### Summary by start number:

Start 5:

- Found in 1 of 71 ( 1.4% ) of genes in pham
- Manual Annotations of this start: 1 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Funsized\_56 (B9),

Start 6:

- Found in 68 of 71 ( 95.8% ) of genes in pham
- Manual Annotations of this start: 54 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost\_55 (B3), Acadian\_55 (B5), Akoma\_55 (B3), AlanGrant\_53 (B4), Athena\_57 (B3), Audrey\_55 (B3), Bae\_56 (B5), Baloo\_55 (B3), Ben11\_55 (B3), Bernardo\_56 (B3), Casbah\_55 (B3), ChaChing\_55 (B3), Chalmers\_54 (B3), Chandler\_55 (B3), Chentzyk\_56 (B3), Compostia\_55 (B3), Corofin\_55 (B3), Deenasa\_54 (B3), Devonte\_54 (B3), DigitDog\_55 (B5), Donny\_56 (B5), EastView9101\_54 (B5), Gadget\_56 (B3), Gervas\_56 (B3), GlenHope\_56 (B3), Glubnar\_56 (B3), Halfpint\_54 (B3), HarveySr\_54 (B3), Heathcliff\_55 (B3), Jackstina\_51 (B3), Kamiyu\_55 (B3), KarasumaRum\_55 (B5), Kronus\_55 (B3), LestyG\_54 (B3), Marley1013\_56 (B3), Marlia\_56 (B3), MmasiCarm\_56 (B3), Mortcellus\_55 (B3), Morty007\_55 (B3), Mulaychimus\_56 (B3), Mysterious\_53 (B5), Nangang\_55 (B5), Nehemiah\_54 (B5), Nozo\_55 (B3), Obutu\_56 (B3), Olivio\_55 (B3), OrangeOswald\_55 (B3), Phayeta\_57 (B3), Phelemich\_53 (B5), Philly\_54 (B3), Phlyer\_55 (B3), RagingRooster\_54 (B3), Reccee\_55 (B5), Reprobate\_54 (B5), Rich\_55 (B5), Rita130\_54 (B5), Rita1961\_56 (B3), RomaT\_55 (B3), Shenyu\_55 (B5), SirJeffery\_54 (B5), SlippinJimmy\_57 (B3), StinkyVeggy\_55 (B5), Suigeneris\_56 (B5), SwainyDoc\_56 (B3), SynergyX\_55 (B3), Vincenzo\_52 (B4), Yahalom\_54 (B3), Yinz\_55 (B3),

Start 9:

- Found in 1 of 71 ( 1.4% ) of genes in pham
- Manual Annotations of this start: 1 of 57

- Called 100.0% of time when present
- Phage (with cluster) where this start called: TinyTerror\_56 (B3),

Start 11:

- Found in 1 of 71 ( 1.4% ) of genes in pham
- Manual Annotations of this start: 1 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Qyrzula\_50 (B2),

### **Summary by clusters:**

There are 5 clusters represented in this pham: B4, B5, B9, B2, B3,

Info for manual annotations of cluster B2:

- Start number 11 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

- Start number 6 was manually annotated 43 times for cluster B3.
- Start number 9 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B4:

- Start number 6 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 6 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B9:

- Start number 5 was manually annotated 1 time for cluster B9.

### **Gene Information:**

Gene: Abinghost\_55 Start: 48403, Stop: 47930, Start Num: 6

Candidate Starts for Abinghost\_55:

(Start: 6 @48403 has 54 MA's), (7, 48367), (16, 48175), (21, 48139), (24, 48112),

Gene: Acadian\_55 Start: 48973, Stop: 48512, Start Num: 6

Candidate Starts for Acadian\_55:

(Start: 6 @48973 has 54 MA's), (8, 48925), (12, 48814), (16, 48745), (19, 48724), (27, 48637), (28, 48631), (30, 48589),

Gene: Akoma\_55 Start: 48418, Stop: 47945, Start Num: 6

Candidate Starts for Akoma\_55:

(Start: 6 @48418 has 54 MA's), (7, 48382), (16, 48190), (21, 48154), (24, 48127),

Gene: AlanGrant\_53 Start: 49377, Stop: 48913, Start Num: 6

Candidate Starts for AlanGrant\_53:

(Start: 6 @49377 has 54 MA's), (10, 49236), (15, 49152), (25, 49056), (26, 49050), (28, 49023), (36, 48924),

Gene: Athena\_57 Start: 49161, Stop: 48688, Start Num: 6

Candidate Starts for Athena\_57:

(Start: 6 @49161 has 54 MA's), (7, 49125), (16, 48933), (21, 48897), (24, 48870),

Gene: Audrey\_55 Start: 48409, Stop: 47936, Start Num: 6

Candidate Starts for Audrey\_55:

(Start: 6 @48409 has 54 MA's), (7, 48373), (14, 48205), (16, 48181), (17, 48172), (21, 48145), (24, 48118), (35, 47965),

Gene: Bae\_56 Start: 50252, Stop: 49791, Start Num: 6

Candidate Starts for Bae\_56:

(Start: 6 @50252 has 54 MA's), (8, 50204), (16, 50024), (19, 50003), (27, 49916), (28, 49910),

Gene: Baloo\_55 Start: 48412, Stop: 47939, Start Num: 6

Candidate Starts for Baloo\_55:

(Start: 6 @48412 has 54 MA's), (7, 48376), (14, 48208), (16, 48184), (17, 48175), (21, 48148), (24, 48121), (35, 47968),

Gene: Ben11\_55 Start: 48694, Stop: 48221, Start Num: 6

Candidate Starts for Ben11\_55:

(Start: 6 @48694 has 54 MA's), (7, 48658), (16, 48466), (21, 48430), (24, 48403),

Gene: Bernardo\_56 Start: 48845, Stop: 48372, Start Num: 6

Candidate Starts for Bernardo\_56:

(Start: 6 @48845 has 54 MA's), (7, 48809), (16, 48617), (21, 48581), (24, 48554), (35, 48401),

Gene: Casbah\_55 Start: 48727, Stop: 48254, Start Num: 6

Candidate Starts for Casbah\_55:

(Start: 6 @48727 has 54 MA's), (7, 48691), (16, 48499), (17, 48490), (21, 48463), (24, 48436),

Gene: ChaChing\_55 Start: 48426, Stop: 47953, Start Num: 6

Candidate Starts for ChaChing\_55:

(Start: 6 @48426 has 54 MA's), (7, 48390), (14, 48222), (16, 48198), (17, 48189), (21, 48162), (24, 48135), (35, 47982),

Gene: Chalmers\_54 Start: 48901, Stop: 48428, Start Num: 6

Candidate Starts for Chalmers\_54:

(Start: 6 @48901 has 54 MA's), (7, 48865), (16, 48673), (21, 48637), (24, 48610),

Gene: Chandler\_55 Start: 49197, Stop: 48724, Start Num: 6

Candidate Starts for Chandler\_55:

(Start: 6 @49197 has 54 MA's), (7, 49161), (16, 48969), (21, 48933), (24, 48906), (35, 48753),

Gene: Chentzyk\_56 Start: 49236, Stop: 48763, Start Num: 6

Candidate Starts for Chentzyk\_56:

(Start: 6 @49236 has 54 MA's), (7, 49200), (14, 49032), (16, 49008), (21, 48972), (24, 48945), (35, 48792),

Gene: Compostia\_55 Start: 48846, Stop: 48373, Start Num: 6

Candidate Starts for Compostia\_55:

(Start: 6 @48846 has 54 MA's), (7, 48810), (16, 48618), (21, 48582), (24, 48555),

Gene: Corofin\_55 Start: 48440, Stop: 47967, Start Num: 6

Candidate Starts for Corofin\_55:

(Start: 6 @48440 has 54 MA's), (7, 48404), (16, 48212), (21, 48176), (24, 48149),

Gene: Deenasa\_54 Start: 48857, Stop: 48384, Start Num: 6  
Candidate Starts for Deenasa\_54:  
(Start: 6 @48857 has 54 MA's), (7, 48821), (14, 48653), (16, 48629), (17, 48620), (21, 48593), (24, 48566),

Gene: Devonte\_54 Start: 48085, Stop: 47612, Start Num: 6  
Candidate Starts for Devonte\_54:  
(Start: 6 @48085 has 54 MA's), (7, 48049), (16, 47857), (21, 47821), (24, 47794),

Gene: DigitDog\_55 Start: 48969, Stop: 48508, Start Num: 6  
Candidate Starts for DigitDog\_55:  
(Start: 6 @48969 has 54 MA's), (8, 48921), (16, 48741), (19, 48720), (27, 48633), (28, 48627), (30, 48585),

Gene: Donny\_56 Start: 49263, Stop: 48802, Start Num: 6  
Candidate Starts for Donny\_56:  
(1, 49764), (Start: 6 @49263 has 54 MA's), (8, 49215), (16, 49035), (19, 49014), (27, 48927), (28, 48921), (30, 48879),

Gene: EastView9101\_54 Start: 48910, Stop: 48449, Start Num: 6  
Candidate Starts for EastView9101\_54:  
(Start: 6 @48910 has 54 MA's), (8, 48862), (16, 48682), (19, 48661), (27, 48574), (28, 48568), (30, 48526),

Gene: Funsized\_56 Start: 50763, Stop: 50284, Start Num: 5  
Candidate Starts for Funsized\_56:  
(Start: 5 @50763 has 1 MA's), (13, 50568), (18, 50514), (23, 50472), (32, 50349), (34, 50319),

Gene: Gadget\_56 Start: 48745, Stop: 48272, Start Num: 6  
Candidate Starts for Gadget\_56:  
(Start: 6 @48745 has 54 MA's), (7, 48709), (14, 48541), (16, 48517), (17, 48508), (21, 48481), (24, 48454), (35, 48301),

Gene: Gervas\_56 Start: 48853, Stop: 48380, Start Num: 6  
Candidate Starts for Gervas\_56:  
(Start: 6 @48853 has 54 MA's), (7, 48817), (16, 48625), (21, 48589), (24, 48562),

Gene: GlenHope\_56 Start: 48408, Stop: 47935, Start Num: 6  
Candidate Starts for GlenHope\_56:  
(Start: 6 @48408 has 54 MA's), (7, 48372), (16, 48180), (21, 48144), (24, 48117),

Gene: Glubnar\_56 Start: 48404, Stop: 47931, Start Num: 6  
Candidate Starts for Glubnar\_56:  
(Start: 6 @48404 has 54 MA's), (7, 48368), (16, 48176), (21, 48140), (24, 48113),

Gene: Halfpint\_54 Start: 48229, Stop: 47756, Start Num: 6  
Candidate Starts for Halfpint\_54:  
(Start: 6 @48229 has 54 MA's), (7, 48193), (16, 48001), (21, 47965), (24, 47938), (35, 47785),

Gene: HarveySr\_54 Start: 48081, Stop: 47608, Start Num: 6  
Candidate Starts for HarveySr\_54:  
(Start: 6 @48081 has 54 MA's), (7, 48045), (16, 47853), (21, 47817), (24, 47790),

Gene: Heathcliff\_55 Start: 48375, Stop: 47902, Start Num: 6  
Candidate Starts for Heathcliff\_55:  
(Start: 6 @48375 has 54 MA's), (7, 48339), (14, 48171), (16, 48147), (17, 48138), (21, 48111), (24, 48084), (35, 47931),

Gene: Jackstina\_51 Start: 48334, Stop: 47861, Start Num: 6  
Candidate Starts for Jackstina\_51:  
(2, 48460), (3, 48409), (Start: 6 @48334 has 54 MA's), (7, 48298), (16, 48106), (21, 48070), (24, 48043),

Gene: Kamiyu\_55 Start: 48385, Stop: 47912, Start Num: 6  
Candidate Starts for Kamiyu\_55:  
(Start: 6 @48385 has 54 MA's), (7, 48349), (16, 48157), (21, 48121), (24, 48094),

Gene: KarasumaRum\_55 Start: 49120, Stop: 48659, Start Num: 6  
Candidate Starts for KarasumaRum\_55:  
(Start: 6 @49120 has 54 MA's), (8, 49072), (12, 48961), (16, 48892), (19, 48871), (27, 48784), (28, 48778), (30, 48736),

Gene: Kronus\_55 Start: 49462, Stop: 48989, Start Num: 6  
Candidate Starts for Kronus\_55:  
(Start: 6 @49462 has 54 MA's), (7, 49426), (16, 49234), (21, 49198), (24, 49171),

Gene: LestyG\_54 Start: 48098, Stop: 47625, Start Num: 6  
Candidate Starts for LestyG\_54:  
(Start: 6 @48098 has 54 MA's), (7, 48062), (16, 47870), (21, 47834), (24, 47807),

Gene: Marley1013\_56 Start: 49347, Stop: 48874, Start Num: 6  
Candidate Starts for Marley1013\_56:  
(Start: 6 @49347 has 54 MA's), (7, 49311), (16, 49119), (21, 49083), (24, 49056),

Gene: Marlia\_56 Start: 48857, Stop: 48384, Start Num: 6  
Candidate Starts for Marlia\_56:  
(Start: 6 @48857 has 54 MA's), (7, 48821), (16, 48629), (21, 48593), (24, 48566),

Gene: MmasiCarm\_56 Start: 48903, Stop: 48430, Start Num: 6  
Candidate Starts for MmasiCarm\_56:  
(Start: 6 @48903 has 54 MA's), (7, 48867), (14, 48699), (16, 48675), (21, 48639), (24, 48612), (35, 48459),

Gene: Mortcellus\_55 Start: 49510, Stop: 49037, Start Num: 6  
Candidate Starts for Mortcellus\_55:  
(Start: 6 @49510 has 54 MA's), (7, 49474), (16, 49282), (21, 49246), (24, 49219),

Gene: Morty007\_55 Start: 49347, Stop: 48874, Start Num: 6  
Candidate Starts for Morty007\_55:  
(Start: 6 @49347 has 54 MA's), (7, 49311), (16, 49119), (21, 49083), (24, 49056),

Gene: Mulaychimus\_56 Start: 48839, Stop: 48366, Start Num: 6  
Candidate Starts for Mulaychimus\_56:  
(Start: 6 @48839 has 54 MA's), (7, 48803), (16, 48611), (21, 48575), (24, 48548),

Gene: Mysterious\_53 Start: 49105, Stop: 48644, Start Num: 6

Candidate Starts for Mysterious\_53:

(Start: 6 @49105 has 54 MA's), (8, 49057), (16, 48877), (19, 48856), (28, 48763), (30, 48721),

Gene: Nangang\_55 Start: 49334, Stop: 48873, Start Num: 6

Candidate Starts for Nangang\_55:

(Start: 6 @49334 has 54 MA's), (8, 49286), (16, 49106), (19, 49085), (27, 48998), (28, 48992), (30, 48950),

Gene: Nehemiah\_54 Start: 49105, Stop: 48644, Start Num: 6

Candidate Starts for Nehemiah\_54:

(Start: 6 @49105 has 54 MA's), (8, 49057), (16, 48877), (19, 48856), (28, 48763), (30, 48721),

Gene: Nozo\_55 Start: 49176, Stop: 48703, Start Num: 6

Candidate Starts for Nozo\_55:

(Start: 6 @49176 has 54 MA's), (7, 49140), (16, 48948), (21, 48912), (24, 48885),

Gene: Obutu\_56 Start: 48859, Stop: 48386, Start Num: 6

Candidate Starts for Obutu\_56:

(Start: 6 @48859 has 54 MA's), (7, 48823), (16, 48631), (21, 48595), (24, 48568),

Gene: Olivio\_55 Start: 48718, Stop: 48245, Start Num: 6

Candidate Starts for Olivio\_55:

(Start: 6 @48718 has 54 MA's), (7, 48682), (14, 48514), (16, 48490), (21, 48454), (24, 48427), (35, 48274),

Gene: OrangeOswald\_55 Start: 48417, Stop: 47944, Start Num: 6

Candidate Starts for OrangeOswald\_55:

(Start: 6 @48417 has 54 MA's), (7, 48381), (16, 48189), (21, 48153), (24, 48126),

Gene: Phayeta\_57 Start: 48740, Stop: 48267, Start Num: 6

Candidate Starts for Phayeta\_57:

(Start: 6 @48740 has 54 MA's), (7, 48704), (14, 48536), (16, 48512), (21, 48476), (24, 48449), (35, 48296),

Gene: Phelemich\_53 Start: 49104, Stop: 48643, Start Num: 6

Candidate Starts for Phelemich\_53:

(Start: 6 @49104 has 54 MA's), (8, 49056), (16, 48876), (19, 48855), (28, 48762), (30, 48720),

Gene: Philly\_54 Start: 48267, Stop: 47794, Start Num: 6

Candidate Starts for Philly\_54:

(Start: 6 @48267 has 54 MA's), (7, 48231), (16, 48039), (21, 48003), (24, 47976),

Gene: Phlyer\_55 Start: 49152, Stop: 48679, Start Num: 6

Candidate Starts for Phlyer\_55:

(Start: 6 @49152 has 54 MA's), (7, 49116), (16, 48924), (21, 48888), (24, 48861),

Gene: Qyrzula\_50 Start: 47596, Stop: 47264, Start Num: 11

Candidate Starts for Qyrzula\_50:

(4, 47755), (Start: 11 @47596 has 1 MA's), (20, 47473), (22, 47458), (23, 47446), (27, 47389), (28, 47383), (29, 47356), (37, 47272),

Gene: RagingRooster\_54 Start: 48098, Stop: 47625, Start Num: 6

Candidate Starts for RagingRooster\_54:

(Start: 6 @48098 has 54 MA's), (7, 48062), (16, 47870), (17, 47861), (21, 47834), (24, 47807),

Gene: Reccee\_55 Start: 49161, Stop: 48700, Start Num: 6

Candidate Starts for Reccee\_55:

(Start: 6 @49161 has 54 MA's), (8, 49113), (16, 48933), (19, 48912), (27, 48825), (28, 48819), (30, 48777),

Gene: Reprobate\_54 Start: 49109, Stop: 48648, Start Num: 6

Candidate Starts for Reprobate\_54:

(Start: 6 @49109 has 54 MA's), (8, 49061), (16, 48881), (19, 48860), (28, 48767), (30, 48725),

Gene: Rich\_55 Start: 50543, Stop: 50082, Start Num: 6

Candidate Starts for Rich\_55:

(Start: 6 @50543 has 54 MA's), (8, 50495), (16, 50315), (19, 50294), (27, 50207), (28, 50201), (30, 50159),

Gene: Rita130\_54 Start: 48981, Stop: 48520, Start Num: 6

Candidate Starts for Rita130\_54:

(Start: 6 @48981 has 54 MA's), (8, 48933), (16, 48753), (19, 48732), (27, 48645), (28, 48639), (30, 48597),

Gene: Rita1961\_56 Start: 48859, Stop: 48386, Start Num: 6

Candidate Starts for Rita1961\_56:

(Start: 6 @48859 has 54 MA's), (7, 48823), (16, 48631), (21, 48595), (24, 48568),

Gene: RomaT\_55 Start: 49007, Stop: 48534, Start Num: 6

Candidate Starts for RomaT\_55:

(Start: 6 @49007 has 54 MA's), (7, 48971), (16, 48779), (21, 48743), (24, 48716),

Gene: Shenyu\_55 Start: 49334, Stop: 48873, Start Num: 6

Candidate Starts for Shenyu\_55:

(Start: 6 @49334 has 54 MA's), (10, 49193), (18, 49091), (28, 48986), (29, 48959), (31, 48938), (33, 48911), (36, 48887),

Gene: SirJeffery\_54 Start: 48983, Stop: 48522, Start Num: 6

Candidate Starts for SirJeffery\_54:

(Start: 6 @48983 has 54 MA's), (8, 48935), (16, 48755), (19, 48734), (27, 48647), (28, 48641), (30, 48599),

Gene: SlippinJimmy\_57 Start: 49641, Stop: 49168, Start Num: 6

Candidate Starts for SlippinJimmy\_57:

(Start: 6 @49641 has 54 MA's), (7, 49605), (16, 49413), (21, 49377), (24, 49350),

Gene: StinkyVeggy\_55 Start: 49120, Stop: 48659, Start Num: 6

Candidate Starts for StinkyVeggy\_55:

(Start: 6 @49120 has 54 MA's), (8, 49072), (12, 48961), (16, 48892), (19, 48871), (27, 48784), (28, 48778), (30, 48736),

Gene: Suigeneris\_56 Start: 49263, Stop: 48802, Start Num: 6

Candidate Starts for Suigeneris\_56:

(1, 49764), (Start: 6 @49263 has 54 MA's), (8, 49215), (16, 49035), (19, 49014), (27, 48927), (28, 48921), (30, 48879),

Gene: SwainyDoc\_56 Start: 48871, Stop: 48398, Start Num: 6

Candidate Starts for SwainyDoc\_56:

(Start: 6 @48871 has 54 MA's), (7, 48835), (14, 48667), (16, 48643), (21, 48607), (24, 48580), (35, 48427),

Gene: SynergyX\_55 Start: 48414, Stop: 47941, Start Num: 6

Candidate Starts for SynergyX\_55:

(Start: 6 @48414 has 54 MA's), (7, 48378), (14, 48210), (16, 48186), (17, 48177), (21, 48150), (24, 48123), (35, 47970),

Gene: TinyTerror\_56 Start: 48813, Stop: 48433, Start Num: 9

Candidate Starts for TinyTerror\_56:

(Start: 9 @48813 has 1 MA's), (16, 48678), (21, 48642), (24, 48615), (35, 48462),

Gene: Vincenzo\_52 Start: 49377, Stop: 48913, Start Num: 6

Candidate Starts for Vincenzo\_52:

(Start: 6 @49377 has 54 MA's), (10, 49236), (15, 49152), (25, 49056), (26, 49050), (28, 49023), (36, 48924),

Gene: Yahalom\_54 Start: 48424, Stop: 47951, Start Num: 6

Candidate Starts for Yahalom\_54:

(Start: 6 @48424 has 54 MA's), (7, 48388), (16, 48196), (21, 48160), (24, 48133),

Gene: Yinz\_55 Start: 48270, Stop: 47797, Start Num: 6

Candidate Starts for Yinz\_55:

(Start: 6 @48270 has 54 MA's), (7, 48234), (14, 48066), (16, 48042), (17, 48033), (21, 48006), (24, 47979), (35, 47826),