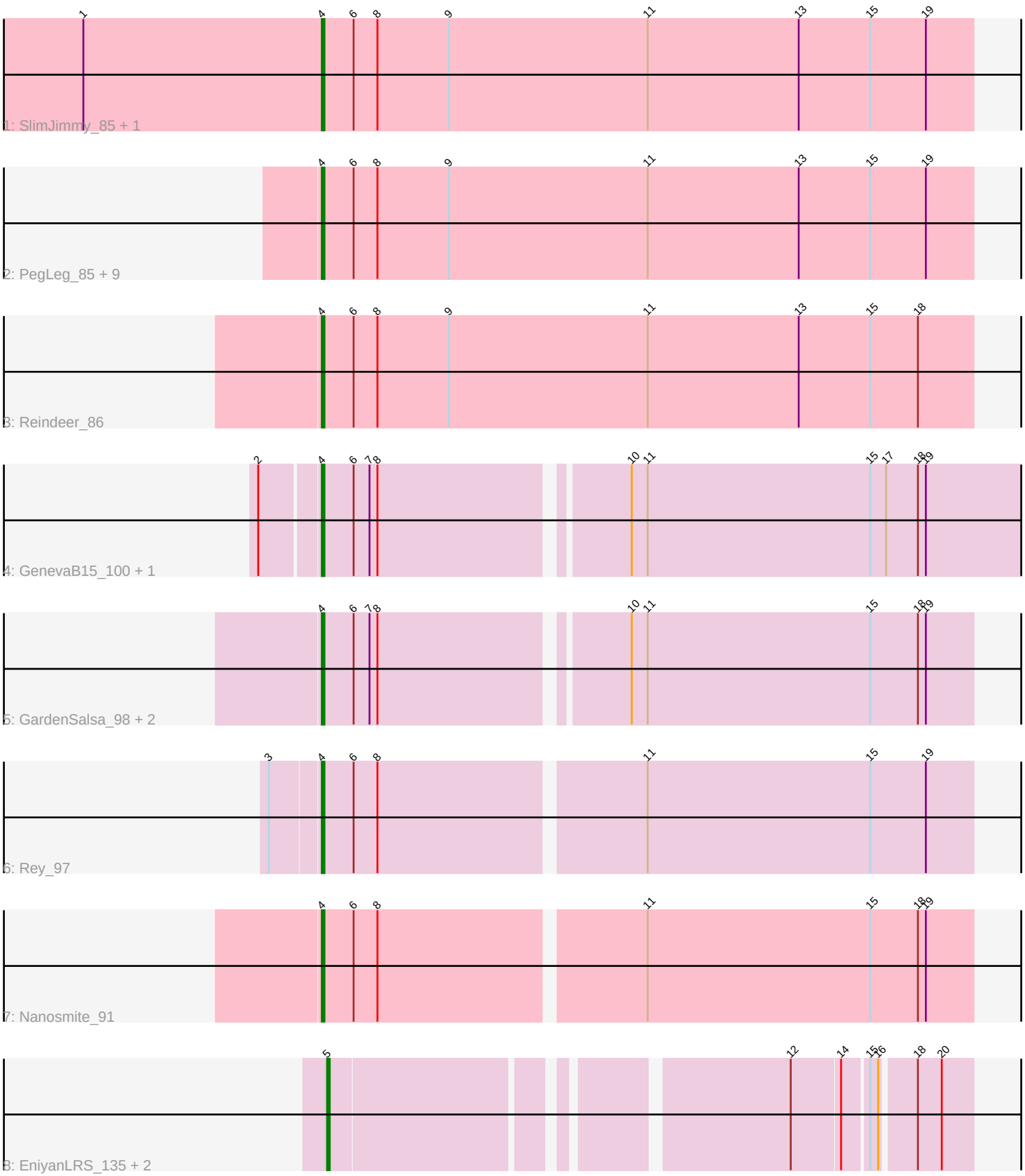
# Pham 165268


1: SlimJimmy_85 + 1
2: PegLeg_85 + 9
3: Reindeer_86
4: GenevaB15_100 + 1
5: GardenSalsa_98 + 2
6: Rey_97
7: Nanosmite_91
8: EniyanLRS_135 + 2

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 165268 Report

This analysis was run 07/09/24 on database version 566.

Pham number 165268 has 23 members, 0 are drafts.

Phages represented in each track:
• Track 1 : SlimJimmy_85, Glaske16_87
• Track 2 : PegLeg_85, Diminimus_87, Auspice_86, LilhomieP_86, Dulcita_87, TyDawg_86, Bongo_86, IPhane7_85, Skinny_90, Bricole_85
• Track 3 : Reindeer_86
• Track 4 : GenevaB15_100, Aziz_98
• Track 5 : GardenSalsa_98, Estes_97, MrMagoo_99
• Track 6 : Rey_97
• Track 7 : Nanosmite_91
• Track 8 : EniyanLRS_135, Cosmo_142, Azrael100_134

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

The start number called the most often in the published annotations is 4, it was called in 20 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_86, Aziz_98, Bongo_86, Bricole_85, Diminimus_87, Dulcita_87, Estes_97, GardenSalsa_98, GenevaB15_100, Glaske16_87, IPhane7_85, LilhomieP_86, MrMagoo_99, Nanosmite_91, PegLeg_85, Reindeer_86, Rey_97, Skinny_90, SlimJimmy_85, TyDawg_86,

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

Genes that do not have the "Most Annotated" start:
• Azrael100_134, Cosmo_142, EniyanLRS_135,

**Summary by start number:**

Start 4:
• Found in 20 of 23 ( 87.0% ) of genes in pham
• Manual Annotations of this start: 20 of 23
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Auspice_86 (M1), Aziz_98 (M2), Bongo_86 (M1), Bricole_85 (M1), Diminimus_87 (M1), Dulcita_87 (M1), Estes_97 (M2), GardenSalsa_98 (M2), GenevaB15_100 (M2), Glaske16_87 (M1), IPhane7_85 (M1), LilhomieP_86 (M1), MrMagoo_99 (M2), Nanosmite_91 (M3), PegLeg_85 (M1), Reindeer_86 (M1), Rey_97 (M2), Skinny_90 (M1), SlimJimmy_85 (M1), TyDawg_86 (M1),

Start 5:
• Found in 3 of 23 ( 13.0% ) of genes in pham
• Manual Annotations of this start: 3 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_134 (V), Cosmo_142 (V), EniyanLRS_135 (V),

**Summary by clusters:**

There are 4 clusters represented in this pham: V, M1, M3, M2,

Info for manual annotations of cluster M1:
•Start number 4 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 4 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 4 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 5 was manually annotated 3 times for cluster V.

***Gene Information:***

Gene: Auspice_86 Start: 53172, Stop: 53417, Start Num: 4
Candidate Starts for Auspice_86:
(Start: 4 @53172 has 20 MA's), (6, 53184), (8, 53193), (9, 53220), (11, 53295), (13, 53352), (15, 53379), (19, 53400),

Gene: Aziz_98 Start: 55391, Stop: 55651, Start Num: 4
Candidate Starts for Aziz_98:
(2, 55370), (Start: 4 @55391 has 20 MA's), (6, 55403), (7, 55409), (8, 55412), (10, 55499), (11, 55505), (15, 55589), (17, 55595), (18, 55607), (19, 55610),

Gene: Azrael100_134 Start: 66616, Stop: 66834, Start Num: 5
Candidate Starts for Azrael100_134:
(Start: 5 @66616 has 3 MA's), (12, 66772), (14, 66790), (15, 66799), (16, 66802), (18, 66814), (20, 66823),

Gene: Bongo_86 Start: 53176, Stop: 53421, Start Num: 4
Candidate Starts for Bongo_86:
(Start: 4 @53176 has 20 MA's), (6, 53188), (8, 53197), (9, 53224), (11, 53299), (13, 53356), (15, 53383), (19, 53404),

Gene: Bricole_85 Start: 52940, Stop: 53185, Start Num: 4
Candidate Starts for Bricole_85:
(Start: 4 @52940 has 20 MA's), (6, 52952), (8, 52961), (9, 52988), (11, 53063), (13, 53120), (15, 53147), (19, 53168),

Gene: Cosmo_142 Start: 66908, Stop: 67126, Start Num: 5
Candidate Starts for Cosmo_142:
(Start: 5 @66908 has 3 MA's), (12, 67064), (14, 67082), (15, 67091), (16, 67094), (18, 67106), (20, 67115),

Gene: Diminimus_87 Start: 53171, Stop: 53416, Start Num: 4
Candidate Starts for Diminimus_87:
(Start: 4 @53171 has 20 MA's), (6, 53183), (8, 53192), (9, 53219), (11, 53294), (13, 53351), (15, 53378), (19, 53399),

Gene: Dulcita_87 Start: 53172, Stop: 53417, Start Num: 4
Candidate Starts for Dulcita_87:
(Start: 4 @53172 has 20 MA's), (6, 53184), (8, 53193), (9, 53220), (11, 53295), (13, 53352), (15, 53379), (19, 53400),

Gene: EniyanLRS_135 Start: 67127, Stop: 67345, Start Num: 5
Candidate Starts for EniyanLRS_135:
(Start: 5 @67127 has 3 MA's), (12, 67283), (14, 67301), (15, 67310), (16, 67313), (18, 67325), (20, 67334),

Gene: Estes_97 Start: 54982, Stop: 55218, Start Num: 4
Candidate Starts for Estes_97:
(Start: 4 @54982 has 20 MA's), (6, 54994), (7, 55000), (8, 55003), (10, 55090), (11, 55096), (15, 55180), (18, 55198), (19, 55201),

Gene: GardenSalsa_98 Start: 55342, Stop: 55578, Start Num: 4
Candidate Starts for GardenSalsa_98:
(Start: 4 @55342 has 20 MA's), (6, 55354), (7, 55360), (8, 55363), (10, 55450), (11, 55456), (15, 55540), (18, 55558), (19, 55561),

Gene: GenevaB15_100 Start: 55391, Stop: 55651, Start Num: 4
Candidate Starts for GenevaB15_100:
(2, 55370), (Start: 4 @55391 has 20 MA's), (6, 55403), (7, 55409), (8, 55412), (10, 55499), (11, 55505), (15, 55589), (17, 55595), (18, 55607), (19, 55610),

Gene: Glaske16_87 Start: 53344, Stop: 53589, Start Num: 4
Candidate Starts for Glaske16_87:
(1, 53254), (Start: 4 @53344 has 20 MA's), (6, 53356), (8, 53365), (9, 53392), (11, 53467), (13, 53524), (15, 53551), (19, 53572),

Gene: IPhane7_85 Start: 53176, Stop: 53421, Start Num: 4
Candidate Starts for IPhane7_85:
(Start: 4 @53176 has 20 MA's), (6, 53188), (8, 53197), (9, 53224), (11, 53299), (13, 53356), (15, 53383), (19, 53404),

Gene: LilhomieP_86 Start: 53655, Stop: 53900, Start Num: 4
Candidate Starts for LilhomieP_86:

(Start: 4 @53655 has 20 MA's), (6, 53667), (8, 53676), (9, 53703), (11, 53778), (13, 53835), (15, 53862), (19, 53883),

Gene: MrMagoo_99 Start: 55342, Stop: 55578, Start Num: 4
Candidate Starts for MrMagoo_99:
(Start: 4 @55342 has 20 MA's), (6, 55354), (7, 55360), (8, 55363), (10, 55450), (11, 55456), (15, 55540), (18, 55558), (19, 55561),

Gene: Nanosmite_91 Start: 54259, Stop: 54498, Start Num: 4
Candidate Starts for Nanosmite_91:
(Start: 4 @54259 has 20 MA's), (6, 54271), (8, 54280), (11, 54376), (15, 54460), (18, 54478), (19, 54481),

Gene: PegLeg_85 Start: 52916, Stop: 53161, Start Num: 4
Candidate Starts for PegLeg_85:
(Start: 4 @52916 has 20 MA's), (6, 52928), (8, 52937), (9, 52964), (11, 53039), (13, 53096), (15, 53123), (19, 53144),

Gene: Reindeer_86 Start: 53665, Stop: 53910, Start Num: 4
Candidate Starts for Reindeer_86:
(Start: 4 @53665 has 20 MA's), (6, 53677), (8, 53686), (9, 53713), (11, 53788), (13, 53845), (15, 53872), (18, 53890),

Gene: Rey_97 Start: 54655, Stop: 54894, Start Num: 4
Candidate Starts for Rey_97:
(3, 54637), (Start: 4 @54655 has 20 MA's), (6, 54667), (8, 54676), (11, 54772), (15, 54856), (19, 54877),

Gene: Skinny_90 Start: 54084, Stop: 54329, Start Num: 4
Candidate Starts for Skinny_90:
(Start: 4 @54084 has 20 MA's), (6, 54096), (8, 54105), (9, 54132), (11, 54207), (13, 54264), (15, 54291), (19, 54312),

Gene: SlimJimmy_85 Start: 53621, Stop: 53866, Start Num: 4
Candidate Starts for SlimJimmy_85:
(1, 53531), (Start: 4 @53621 has 20 MA's), (6, 53633), (8, 53642), (9, 53669), (11, 53744), (13, 53801), (15, 53828), (19, 53849),

Gene: TyDawg_86 Start: 53179, Stop: 53424, Start Num: 4
Candidate Starts for TyDawg_86:
(Start: 4 @53179 has 20 MA's), (6, 53191), (8, 53200), (9, 53227), (11, 53302), (13, 53359), (15, 53386), (19, 53407),