

SUPPLEMENTAL DATA

for

Functional Role of Methylation of G518 of the 16S rRNA 530 loop by GidB in

Mycobacterium tuberculosis

SUPPLEMENTARY TABLE 1

In silico digestion of 16S rRNA found no other fragments with the same digested mass as the region of interest.

RNA position	Mass of oligo with 3' phosphate	Sequence of digestion product
U1:5	1667.123	pUUUUGp
U6:G9	1281.132	UUUGp
G10:G10	363.057	Gp
A11:G12	692.109	AGp
A13:G14	692.109	AGp
U15:G18	1281.132	UUUGp
A19:G24	1914.241	AUCCUGp
G25:G25	363.057	Gp
C26:G30	1608.216	CUCAGp
G31:G31	363.057	Gp
A32:G34	997.15	ACGp
A35:G38	1326.202	AACGp
C39:G41	974.123	CUGp
G42:G42	363.057	Gp
C43:G44	668.098	CGp
G45:G45	363.057	Gp
C46:G47	668.098	CGp
U48:G49	669.082	UGp
C50:G60	3512.464	CUUAACACAUGp

C61:G64	1326.202	CAAGp
U65:G67	974.123	UCGp
A68:G71	1326.202	AACGp
G72:G72	363.057	Gp
A73:G76	1350.214	AAAGp
G77:G77	363.057	Gp
U78:G85	2502.28	UCUCUUCGp
G86:G86	363.057	Gp
A87:G88	692.109	AGp
A89:G95	2243.293	AUACUCGp
A96:G97	692.109	AGp
U98:G99	669.082	UGp
G100:G100	363.057	Gp
C101:G102	668.098	CGp
A103:G106	1326.202	AACGp
G107:G107	363.057	Gp
G108:G108	363.057	Gp
U109:G110	669.082	UGp
A111:G112	692.109	AGp
U113:G119	2266.321	UAACACGp
U120:G121	669.082	UGp
G122:G122	363.057	Gp
G123:G123	363.057	Gp
U124:G125	669.082	UGp

A126:G130	1609.2	AUCUGp
C131:G135	1584.205	CCCUGp
C136:G142	2219.282	CACUUCGp
G143:G143	363.057	Gp
G144:G144	363.057	Gp
A145:G149	1656.239	AUAAGp
C150:G153	1279.164	CCUGp
G154:G154	363.057	Gp
G155:G155	363.057	Gp
A156:G161	1961.28	AAACUGp
G162:G162	363.057	Gp
G163:G163	363.057	Gp
U164:G173	3183.412	UCUAAUACCGp
G174:G174	363.057	Gp
A175:G178	1327.186	AUAGp
G179:G179	363.057	Gp
A180:G185	1936.284	ACCACGp
G186:G186	363.057	Gp
G187:G187	363.057	Gp
A188:G190	998.134	AUGp
C191:G194	1303.175	CAUGp
U195:G199	1586.173	UCUUGp
U200:G201	669.082	UGp
G202:G202	363.057	Gp

U203:G204	669.082	UGp
G205:G205	363.057	Gp
A206:G209	1350.214	AAAGp
C210:G211	668.098	CGp
C212:G217	1915.225	CUUUAGp
C218:G219	668.098	CGp
G220:G220	363.057	Gp
U221:G222	669.082	UGp
U223:G224	669.082	UGp
G225:G225	363.057	Gp
G226:G226	363.057	Gp
A227:G229	998.134	AUGp
A230:G231	692.109	AGp
C232:G235	1278.18	CCCGp
C236:G237	668.098	CGp
G238:G238	363.057	Gp
C239:G246	2548.334	CCUAUCAGp
C247:G250	1280.148	CUUGp
U251:G253	975.107	UUGp
G254:G254	363.057	Gp
U255:G256	669.082	UGp
G257:G257	363.057	Gp
G258:G258	363.057	Gp
G259:G259	363.057	Gp

U260:G261	669.082	UGp
A262:G264	997.15	ACGp
G265:G265	363.057	Gp
C266:G274	2876.403	CCUACCAAGp
G275:G275	363.057	Gp
C276:G277	668.098	CGp
A278:G280	997.15	ACGp
A281:G283	997.15	ACGp
G284:G284	363.057	Gp
G285:G285	363.057	Gp
U286:G288	998.134	UAGp
C289:G291	973.139	CCGp
G292:G292	363.057	Gp
C293:G296	1279.164	CCUGp
A297:G298	692.109	AGp
A299:G300	692.109	AGp
G301:G301	363.057	Gp
G302:G302	363.057	Gp
U303:G304	669.082	UGp
U305:G308	1279.164	UCCGp
G309:G309	363.057	Gp
C310:G317	2547.35	CCACACUGp
G318:G318	363.057	Gp
G319:G319	363.057	Gp

A320:G323	1303.175	ACUGp
A324:G325	692.109	AGp
A326:G330	1632.227	AUACGp
G331:G331	363.057	Gp
C332:G336	1607.232	CCCAGp
A337:G345	2853.375	ACUCCUACGp
G346:G346	363.057	Gp
G347:G347	363.057	Gp
A348:G349	692.109	AGp
G350:G350	363.057	Gp
C351:G353	997.15	CAGp
C354:G356	997.15	CAGp
U357:G358	669.082	UGp
G359:G359	363.057	Gp
G360:G360	363.057	Gp
G361:G361	363.057	Gp
A362:G368	2268.289	AAUAUUGp
C369:G375	2266.321	CACAAUGp
G376:G376	363.057	Gp
G377:G377	363.057	Gp
C378:G379	668.098	CGp
C380:G383	1326.202	CAAGp
C384:G387	1279.164	CCUGp
A388:G390	998.134	AUGp

C391:G393	997.15	CAGp
C394:G395	668.098	CGp
A396:G398	997.15	ACGp
C399:G401	973.139	CCGp
C402:G403	668.098	CGp
U404:G405	669.082	UGp
G406:G406	363.057	Gp
G407:G407	363.057	Gp
G408:G408	363.057	Gp
G409:G409	363.057	Gp
A410:G412	998.134	AUGp
A413:G415	997.15	ACGp
G416:G416	363.057	Gp
C417:G422	1890.23	CCUUCGp
G423:G423	363.057	Gp
G424:G424	363.057	Gp
U425:G427	975.107	UUGp
U428:G446	5979.755	UAAACCUCUUUCACCAUCG p
A447:G449	997.15	ACGp
A450:G452	1021.161	AAGp
G453:G453	363.057	Gp
U454:G457	1279.164	UCCGp
G458:G458	363.057	Gp

G459:G459	363.057	Gp
U460:G467	2502.28	UUCUCUCGp
G468:G468	363.057	Gp
A469:G472	1304.159	AUUGp
A473:G475	997.15	ACGp
G476:G476	363.057	Gp
U477:G479	998.134	UAGp
G480:G480	363.057	Gp
U481:G482	669.082	UGp
G483:G483	363.057	Gp
A484:G485	692.109	AGp
A486:G488	1021.161	AAGp
A489:G491	1021.161	AAGp
C492:G496	1607.232	CACCGp
G497:G497	363.057	Gp
C498:G506	2876.403	CCAACUACGp
U507:G508	669.082	UGp
C509:G512	1302.191	CCAGp
C513:G515	997.15	CAGp
C516:G518	973.139	CCGp
C519:G520	668.098	CGp
G521:G521	363.057	Gp
U522:G528	2267.305	UAAUACGp
U529:G531	998.134	UAGp

G532:G532	363.057	Gp
G533:G533	363.057	Gp
U534:G535	669.082	UGp
C536:G537	668.098	CGp
A538:G539	692.109	AGp
C540:G541	668.098	CGp
U542:G544	975.107	UUGp
U545:G548	1279.164	UCCGp
G549:G549	363.057	Gp
A550:G557	2573.33	AAUUACUGp
G558:G558	363.057	Gp
G559:G559	363.057	Gp
C560:G561	668.098	CGp
U562:G566	1656.239	UAAAGp
A567:G568	692.109	AGp
C569:G572	1279.164	CUCGp
U573:G575	998.134	UAGp
G576:G576	363.057	Gp
U577:G578	669.082	UGp
G579:G579	363.057	Gp
U580:G583	1281.132	UUUGp
U584:G586	974.123	UCGp
C587:G588	668.098	CGp
U589:G591	975.107	UUGp

U592:G595	1280.148	UUCGp
U596:G597	669.082	UGp
A598:G607	3206.439	AAAUCUCACGp
G608:G608	363.057	Gp
C609:G616	2549.318	CUUAACUGp
U617:G618	669.082	UGp
A619:G620	692.109	AGp
C621:G622	668.098	CGp
U623:G624	669.082	UGp
C625:G626	668.098	CGp
G627:G627	363.057	Gp
G628:G628	363.057	Gp
C629:G630	668.098	CGp
A631:G635	1632.227	AUACGp
G636:G636	363.057	Gp
G637:G637	363.057	Gp
C638:G640	997.15	CAGp
A641:G645	1632.227	ACUAGp
A646:G647	692.109	AGp
U648:G652	1609.2	UACUGp
C653:G655	997.15	CAGp
G656:G656	363.057	Gp
G657:G657	363.057	Gp
G658:G658	363.057	Gp

A659:G660	692.109	AGp
A661:G664	1303.175	ACUGp
G665:G665	363.057	Gp
A666:G673	2549.318	AAUUCUGp
G674:G674	363.057	Gp
U675:G676	669.082	UGp
U677:G679	998.134	UAGp
C680:G681	668.098	CGp
G682:G682	363.057	Gp
U683:G684	669.082	UGp
G685:G685	363.057	Gp
A686:G689	1327.186	AAUGp
C690:G691	668.098	CGp
C692:G694	997.15	CAGp
A695:G701	2267.305	AUAUCAGp
G702:G702	363.057	Gp
A703:G704	692.109	AGp
G705:G705	363.057	Gp
A706:G712	2265.337	AACACCGp
G713:G713	363.057	Gp
U714:G715	669.082	UGp
G716:G716	363.057	Gp
C717:G718	668.098	CGp
A719:G721	1021.161	AAGp

G722:G722	363.057	Gp
C723:G724	668.098	CGp
G725:G725	363.057	Gp
G726:G726	363.057	Gp
U727:G732	1891.214	UCUCUGp
G733:G733	363.057	Gp
G734:G734	363.057	Gp
C735:G737	997.15	CAGp
U738:G743	1938.252	UAACUGp
A744:G746	997.15	ACGp
C747:G749	974.123	CUGp
A750:G751	692.109	AGp
G752:G752	363.057	Gp
A753:G754	692.109	AGp
C755:G756	668.098	CGp
A757:G760	1350.214	AAAGp
C761:G762	668.098	CGp
U763:G764	669.082	UGp
G765:G765	363.057	Gp
G766:G766	363.057	Gp
G767:G767	363.057	Gp
A768:G769	692.109	AGp
C770:G771	668.098	CGp
A772:G776	1655.255	AACAGp

G777:G777	363.057	Gp
A778:G782	1633.211	AUUAGp
A783:G790	2548.334	AUACCCUGp
G791:G791	363.057	Gp
U792:G794	998.134	UAGp
U795:G800	1913.257	UCCACGp
C801:G803	973.139	CCGp
U804:G809	1961.28	UAAACGp
G810:G810	363.057	Gp
U811:G812	669.082	UGp
G813:G813	363.057	Gp
G814:G814	363.057	Gp
U815:G820	1938.252	UACUAGp
G821:G821	363.057	Gp
U822:G823	669.082	UGp
U824:G825	669.082	UGp
G826:G826	363.057	Gp
G827:G827	363.057	Gp
U828:G839	3725.396	UUUCCUUCCUUGp
G840:G840	363.057	Gp
G841:G841	363.057	Gp
A842:G846	1608.216	AUCCGp
U847:G848	669.082	UGp
C849:G851	973.139	CCGp

U852:G854	998.134	UAGp
C855:G860	1937.268	CUAACGp
C861:G867	2267.305	CAUUAAGp
U868:G874	2218.298	UACCCCGp
C875:G878	1279.164	CCUGp
G879:G879	363.057	Gp
G880:G880	363.057	Gp
G881:G881	363.057	Gp
A882:G883	692.109	AGp
U884:G887	1303.175	UACGp
G888:G888	363.057	Gp
C889:G891	973.139	CCGp
C892:G895	1326.202	CAAGp
G896:G896	363.057	Gp
C897:G909	4193.596	CUAAAACUCAAGp
G910:G910	363.057	Gp
A911:G915	1633.211	AAUUGp
A916:G918	997.15	ACGp
G919:G919	363.057	Gp
G920:G920	363.057	Gp
G921:G921	363.057	Gp
G922:G922	363.057	Gp
C923:G926	1278.18	CCCGp
C927:G932	1960.296	CACAAGp

C933:G934	668.098	CGp
G935:G935	363.057	Gp
C936:G937	668.098	CGp
G938:G938	363.057	Gp
A939:G940	692.109	AGp
C941:G944	1303.175	CAUGp
U945:G946	669.082	UGp
G947:G947	363.057	Gp
A948:G956	2879.355	AUUAAUUCGp
A957:G959	998.134	AUGp
C960:G964	1631.243	CAACGp
C965:G966	668.098	CGp
A967:G969	1021.161	AAGp
A970:G980	3488.453	AACCUUACCUGp
G981:G981	363.057	Gp
G982:G982	363.057	Gp
U983:G986	1281.132	UUUGp
A987:G991	1632.227	ACAUGp
C992:G996	1631.243	CACAGp
G997:G997	363.057	Gp
A998:G1000	997.15	ACGp
C1001:G1002	668.098	CGp
U1003:G1007	1609.2	UCUAGp
A1008:G1009	692.109	AGp

A1010:G1013	1327.186	AUAGp
G1014:G1014	363.057	Gp
C1015:G1016	668.098	CGp
U1017:G1024	2502.28	UUCCCUUGp
U1025:G1026	669.082	UGp
G1027:G1027	363.057	Gp
C1028:G1031	1279.164	CCUGp
U1032:G1033	669.082	UGp
U1034:G1035	669.082	UGp
C1036:G1038	997.15	CAGp
G1039:G1039	363.057	Gp
U1040:G1041	669.082	UGp
G1042:G1042	363.057	Gp
U1043:G1044	669.082	UGp
C1045:G1048	1303.175	CAUGp
G1049:G1049	363.057	Gp
C1050:G1052	974.123	CUGp
U1053:G1055	974.123	UCGp
U1056:G1059	1303.175	UCAGp
C1060:G1063	1279.164	CUCGp
U1064:G1065	669.082	UGp
U1066:G1068	974.123	UCGp
U1069:G1070	669.082	UGp
A1071:G1072	692.109	AGp

A1073:G1075	998.134	AUGp
U1076:G1078	975.107	UUGp
G1079:G1079	363.057	Gp
G1080:G1080	363.057	Gp
U1081:G1085	1633.211	UUAAGp
U1086:G1090	1584.205	UCCCGp
C1091:G1095	1631.243	CAACGp
A1096:G1097	692.109	AGp
C1098:G1099	668.098	CGp
C1100:G1108	2853.375	CAACCCUUGp
U1109:G1115	2220.266	UCUCAUGp
U1116:G1118	975.107	UUGp
C1119:G1122	1302.191	CCAGp
C1123:G1126	1302.191	CACGp
U1127:G1131	1633.211	UAAUGp
G1132:G1132	363.057	Gp
U1133:G1134	669.082	UGp
G1135:G1135	363.057	Gp
G1136:G1136	363.057	Gp
G1137:G1137	363.057	Gp
A1138:G1142	1608.216	ACUCGp
U1143:G1144	669.082	UGp
A1145:G1146	692.109	AGp
A1147:G1148	692.109	AGp

A1149:G1152	1303.175	ACUGp
C1153:G1155	973.139	CCGp
G1156:G1156	363.057	Gp
G1157:G1157	363.057	Gp
G1158:G1158	363.057	Gp
U1159:G1166	2548.334	UCAACUCGp
G1167:G1167	363.057	Gp
A1168:G1169	692.109	AGp
G1170:G1170	363.057	Gp
A1171:G1173	1021.161	AAGp
G1174:G1174	363.057	Gp
U1175:G1176	669.082	UGp
G1177:G1177	363.057	Gp
G1178:G1178	363.057	Gp
G1179:G1179	363.057	Gp
A1180:G1182	998.134	AUGp
A1183:G1185	997.15	ACGp
U1186:G1190	1632.227	UCAAGp
U1191:G1198	2549.318	UCAUCAUGp
C1199:G1207	2830.348	CCCCUUAUGp
U1208:G1212	1608.216	UCCAGp
G1213:G1213	363.057	Gp
G1214:G1214	363.057	Gp
C1215:G1225	3488.453	CUUCACACAUGp

C1226:G1233	2572.346	CUACAAUGp
G1234:G1234	363.057	Gp
C1235:G1237	973.139	CCGp
G1238:G1238	363.057	Gp
U1239:G1245	2290.332	UACAAAGp
G1246:G1246	363.057	Gp
G1247:G1247	363.057	Gp
C1248:G1250	974.123	CUGp
C1251:G1252	668.098	CGp
A1253:G1255	998.134	AUGp
C1256:G1258	973.139	CCGp
C1259:G1260	668.098	CGp
A1261:G1262	692.109	AGp
G1263:G1263	363.057	Gp
U1264:G1268	1633.211	UUAAGp
C1269:G1270	668.098	CGp
A1271:G1282	3865.527	AAUCCUUAAAAGp
C1283:G1285	973.139	CCGp
G1286:G1286	363.057	Gp
U1287:G1292	1914.241	UCUCAGp
U1293:G1296	1280.148	UUCGp
G1297:G1297	363.057	Gp
A1298:G1301	1303.175	AUCGp
G1302:G1302	363.057	Gp

G1303:G1303	363.057	Gp
G1304:G1304	363.057	Gp
U1305:G1308	1280.148	UCUGp
C1309:G1315	2242.309	CAACUCGp
A1316:G1321	1912.273	ACCCCGp
U1322:G1323	669.082	UGp
A1324:G1326	1021.161	AAGp
U1327:G1329	974.123	UCGp
G1330:G1330	363.057	Gp
A1331:G1332	692.109	AGp
U1333:G1335	974.123	UCGp
C1336:G1339	1303.175	CUAGp
U1340:G1345	1938.252	UAAUCGp
C1346:G1348	997.15	CAGp
A1349:G1353	1632.227	AUCAGp
C1354:G1358	1631.243	CAACGp
C1359:G1361	974.123	CUGp
C1362:G1363	668.098	CGp
G1364:G1364	363.057	Gp
U1365:G1366	669.082	UGp
A1367:G1372	1961.28	AAUACGp
U1373:G1378	1890.23	UUCCCGp
G1379:G1379	363.057	Gp
G1380:G1380	363.057	Gp

C1381:G1385	1585.189	CCUUGp
U1386:G1394	2876.403	UACACACCGp
C1395:G1398	1278.18	CCCGp
U1399:G1403	1608.216	UCACGp
U1404:G1408	1609.2	UCAUGp
A1409:G1412	1350.214	AAAGp
U1413:G1415	974.123	UCGp
G1416:G1416	363.057	Gp
U1417:G1425	2876.403	UAACACCCGp
A1426:G1428	1021.161	AAGp
C1429:G1432	1302.191	CCAGp
U1433:G1434	669.082	UGp
G1435:G1435	363.057	Gp
C1436:G1446	3463.457	CCUAACCCUCGp
G1447:G1447	363.057	Gp
G1448:G1448	363.057	Gp
A1449:G1450	692.109	AGp
G1451:G1451	363.057	Gp
G1452:G1452	363.057	Gp
A1453:G1454	692.109	AGp
C1455:G1457	974.123	CUGp
U1458:G1460	974.123	UCGp
A1461:G1463	1021.161	AAGp
G1464:G1464	363.057	Gp

U1465:G1466	669.082	UGp
G1467:G1467	363.057	Gp
G1468:G1468	363.057	Gp
A1469:G1472	1303.175	AUCGp
G1473:G1473	363.057	Gp
C1474:G1475	668.098	CGp
A1476:G1479	1304.159	AUUGp
G1480:G1480	363.057	Gp
G1481:G1481	363.057	Gp
A1482:G1484	997.15	ACGp
A1485:G1487	1021.161	AAGp
U1488:G1490	974.123	UCGp
U1491:G1497	2290.332	UAACAAGp
G1498:G1498	363.057	Gp
U1499:G1501	998.134	UAGp
C1502:G1504	973.139	CCGp
U1505:G1509	1608.216	UACCGp
G1510:G1510	363.057	Gp
A1511:G1513	1021.161	AAGp
G1514:G1514	363.057	Gp
U1515:G1516	669.082	UGp
C1517:G1518	668.098	CGp
G1519:G1519	363.057	Gp
C1520:G1522	974.123	CUGp

G1523:G1523	363.057	Gp
A1524:U1537	4262.544	AUCACCUCCUUUCU